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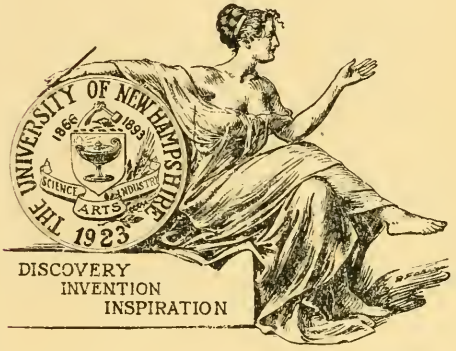

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INSPECTION OF COMMERCIAL FEEDING STUFFS

ANALYSES OF COMMERCIAL FEEDING-STUFFS COLLECTED BY THE COMMISSIONER OF AGRICULTURE IN 1920.

This report deals with the analyses of three hundred and forty samples of commercial feedstuffs which were collected during the year under the direction of the Commissioner of Agriculture, Mr. Andrew L. Felker. Mr. E. D. Sanborn visited nearly every town in the state and collected samples from most of the feed dealers.

With a few exceptions, the feeds were of good quality and very similar to those of last year. The cottonseed meals were lower in protein and somewhat more inferior in quality than they were a few years ago. The flaxseed meals averaged almost three per cent lower in protein than last year. The gluten feeds were superior in quality to those of last year. There was a decided increase in the number of wheat feeds this year and their quality was similar to that of last year.

Co-operation with the Federal Bureau of Chemistry.

The State law cannot effectively protect the purchaser who buys directly from a manufacturer outside of the State inasmuch as the State powers of regulation are limited to sales within the State. For this reason coöperative arrangements were made with the Federal Bureau of Chemistry in the fall of 1919 and carried out during the past year. In cases where interstate shipments are found to be misbranded or adulterated, the findings of the State Department are reported to the federal authorities, who then carry out the necessary legal pro-

ceedings. This gives a great deal of additional protection to the feed purchasers of the State.

Sliding Scale or Double Guarantee.

The law definitely provides that the manufacturer shall state only the minimum percentage of protein, fat and carbohydrates upon the guarantee. The object of this is to prevent the purchaser from being misled by a double guarantee. For example, without this provision in the law, when a guarantee shows 30 per cent to 45 per cent protein, an analysis of 30 per cent is all that is necessary to meet the guarantee, although the guarantee may lead the purchaser to believe that he may get close to 45 per cent, when as a matter of fact he is more apt to get 30 per cent, or even less. The last year has shown a marked improvement in this regard. In 1919, out of 306 samples analyzed, 34, or 11 per cent, had a double guarantee, while in 1920 out of 340 samples only 21, or 6 per cent, had a double guarantee. These cases were brought to the attention of the manufacturer and in most cases old tags had been used. All of these manufacturers have promised to comply with the law in the future.

Classification of Feedstuffs Analyzed.

In classifying these feedstuffs we have used the class name under which they have been sold. The following table shows the number of feeds in each class, the average per cent of protein and fat found and the price per 100 lbs.

TABLE NUMBER 1.

Class.	No. of Feeds.	Average Percent. Protein	Average Fat Percent.	Price per 100 lbs.
Alfalfa Meals	2	14.84	2.17	3.12
Beet Pulps	6	8.94	0.66	3.07
Brewers Dried Grains	2	17.71	6.89	3.45
Calf Meals	4	23.83	7.21	5.02
Compounded Feeds	50	13.12	4.06	3.60
Cottonseed Meals	15	34.66	6.93	4.07
Dairy Feeds	28	22.55	5.28	3.90
Flaxseed Meals	7	31.73	6.68	4.38
Gluten Feeds	7	27.27	3.65	3.95
Hog Feeds	2	27.40	6.14	3.87
Hominy Feeds	6	10.86	5.88	3.56
Miscellaneous	4	20.70	5.00	3.78
Molasses Feeds	3	11.02	2.83	3.42
Oat Feeds	3	7.04	2.31	2.03
Poultry Feeds	37	25.34	6.17	4.53
Wheat Feeds	164	16.11	4.50	3.14
Total	340			

Deficiencies in Analyses.

The following table shows the number of samples found deficient in protein and in fat, and the number of samples deficient in both protein and fat, and also the percentage number of each class showing deficiencies. In making up the table, only those deficiencies of one half of one per cent or more of protein and one fourth of one per cent or more of fat were used.

Class.	No. in Class.	No. Def. ½ % Protein.	No. Def. ¼ % Fat.	No. Def. both Protein and Fat.	Per cent Def. ½ % Protein.	Per cent Def. ¼ % Fat.	Per cent both Protein and Fat.
Alfalfa Meals	2	0	0	0	0	0	0
Beet Pulps	6	2	0	0	0	0	0
Brewer's Dried Grains	2	2	1	1	100	50	50
Calf Meals	4	0	0	0	0	0	0
Compounded Feeds	50	7	13	4	14	25	8
Cottonseed Meals	15	6	1	0	4	6	0
Dairy Feeds	28	5	3	2	18	11	7
Flaxseed Meals	7	4	0	0	0	0	0
Gluten Feeds	7	0	0	0	0	0	0
Hog Feeds	2	0	0	0	0	0	0
Hominy Feeds	6	0	0	0	0	0	0
Miscellaneous	4	2	1	1	50	25	25
Molasses Feeds	3	0	1	0	0	33	0
Oat Feeds	3	0	0	0	0	0	0
Poultry Feeds	37	4	5	2	11	14	5
Wheat Feeds	164	10	5	1	6	3	1
	340	42	30	11	12	9	3

What Does the Chemical Analysis Mean?

In a feed analysis the following determinations are usually made: protein, fat, carbohydrates, ash, moisture and crude fiber.

Protein is determined by finding the percentage of total nitrogen and multiplying this by the factor 6.25, since it has been found that the average proteins contain 16 per cent nitrogen. While this includes small amounts of certain other compounds which contain nitrogen, for all practical purposes it is sufficiently accurate. Protein, then, is made up of the compounds in the feed which contain nitrogen.

Fat is determined by extracting a dried sample of the feedstuff with ether and weighing the residue after the ether is driven off. In main it contains the vegetable fats of which olive oil, linseed oil, peanut oil, and cottonseed oil are examples. It contains also small amounts of clorophyll (the green coloring matter of leaves), waxes and resins, etc.; but for practical purposes it is accurate enough to deal with it as fat.

Ash is determined by weighing the residue after the feedstuff has been burned at a low temperature. It contains the mineral matter of the feedstuff.

Moisture is determined by finding the loss in weight after heating at the temperature of boiling water. It shows the amount of water that the feed contains.

Carbohydrates are determined by adding the percentage of protein, fat, moisture, and ash and subtracting it from 100. The carbohydrates are composed largely of starches, sugars, pentosans, celluloses, etc. The carbohydrates include the crude fiber also. The percentage of carbohydrates less the percentage of crude fiber is called the *nitrogen free extract.*

Crude Fiber is made up of the more woody-like carbohydrates, which are largely of cellulose nature. Pure cotton is an example of almost pure cellulose. Wood, straw, corn fodder, etc., are materials which are high in crude fiber content.

Value of the Analysis.

The analysis enables the purchaser to buy and use his feeds in the most economical way, by aiding him to determine:

1. The comparative value of different feeds in dollars and cents.
2. Whether the feed is of high or low quality.
3. Whether the feed is of the type which meets his needs.
4. How to balance his rations.

What Are Foods for Animals?

In order that an animal may continue to live even without making growth or producing wool, eggs, milk or work, etc., there are certain food materials which it must have. The animal must have a certain amount of protein, fat, carbohydrates,

water and mineral constituents. In addition there are other things, known as "vitamines," "growth promoting substances," or "food accessories," the chemical nature of which is not well understood, which are necessary. The latter substances, however, are usually present in sufficient quantities in our regular feeding stuffs and we need consider them no further. Our feedstuffs usually contain mineral matter sufficient for the needs of an animal with a few exceptions, such as calcium carbonate, which we furnish, as oyster shells for hens, so we need not consider the mineral matter further.

The protein, fat and carbohydrates must be furnished in the feed and since they are expensive and their content in feeds largely determines its feeding value, we should consider their use in the animal.

The Functions of Foods in the Animal.

Carbohydrates, protein and fat are sometimes called food nutrients. These nutrients have two definite uses in the animal body.

First, they furnish building materials to produce new tissues in the growing animal, to repair the waste in tissues of the animal, and to make products such as milk, eggs, wool, etc.

Second, they furnish (by being burned in the body) energy to maintain body heat and to do work. All animals require energy for their life processes. They require energy to move about, to digest their food and to maintain their body temperature.

All three of the food nutrients can be used to furnish energy, but the energy value per pound and the cost per pound is not the same. Not all can be used to build up all parts of body tissues. Protein is definitely required for certain building uses. For these reasons a knowledge of the uses of each nutrient will aid the practical feeder.

The Function of Protein.

The proteins form an essential part of every living cell. All animals must secure their protein from the protein of foods.

They cannot make it from the more simple inorganic compounds, as plants do. Protein in main forms the muscular tissues, hair, hoofs, horns, etc. Milk and eggs contain large quantities of protein. The young growing animal or the one producing milk or eggs requires more protein than the mature animal or the one which is not producing materials. When a surplus of protein above the needs of the animal is fed it does not store protein but burns it to produce heat or converts a part of it into fat. This is an expensive source of energy or fat, however, inasmuch as carbohydrates which are less expensive can furnish this need.

The Functions of Fat.

Fat is burned in the animal body to furnish energy as heat or muscular work or is stored in the animal as body fat. Although one pound of fat is equivalent to 2.25 pounds of carbohydrates in energy value, the fat is more expensive and is next to protein in cost.

The Functions of Carbohydrates.

Carbohydrates are burned in the body to furnish heat or energy for work and also may be converted into fat and stored as body fat. Carbohydrates are cheaper than protein and fat.

Analysis Alone Not Sufficient to Determine Value of Feed.

Not all of the protein, carbohydrates and fat in the different feedstuffs are digested. In comparing the value of different feedstuffs, especially when they are of different types, we must take into consideration the digestibility of these food nutrients. The *coefficient of* digestibility is a term which expresses the percentage amount of the food nutrients which are digested and absorbed by the animal. These coefficients are determined by careful feeding experiments which are conducted by the various experiment stations. Table Number 3 gives a summary of the average results for some of our common feedstuffs.

TABLE NUMBER 3.

Average Digestibility of Feeding Stuffs, with Ruminants Expressed in Percentages.

(Taken from "Feeds and Feeding" by Henry and Morrison.)

	Dry matter.	Protein.	Crude Fiber.	Nitrogen free Extract.	Fat.
Corn Meal	90	74	57	94	93
Gluten meal	88	85	55	90	93
Gluten feed	86	85	76	88	85
Hominy feed	83	66	76	90	91
Wheat bran	65	78	31	72	68
Standard wheat middlings	..	77	30	78	88
Barley	88	78	56	92	78
Oats	70	78	35	81	87
Buckwheat	71	75	24	76	100
Soybean meal	..	92	99	100	68
Linseed meal (old process)	79	89	57	78	89
Linseed meal (new process)	81	86	73	87	95
Cottonseed	66	68	76	50	87
Cottonseed meal	77	84	37	75	95
Cottonseed feed	56	58	45	61	90
Dried brewer's grain	61	81	49	57	89
Dried beet pulp	75	52	83	83	..
Molasses feeds	68	61	50	79	100
Flesh meal	..	93	..	..	98
Fish meal	71	78	..	..	100
Timothy hay	55	48	50	62	50
Barley hay	59	65	62	63	41
Oat hay	54	54	52	56	61
Alfalfa	60	71	43	72	38
Red clover	59	59	54	66	57
Corn silage dent immature	64	53	68	66	71
Corn silage dent mature.	66	51	65	71	82

We have this data for the pure grains and feeds, but because the various proprietary feeds are not standardized there is not any data available for them. For this reason there is a decided advantage in purchasing the pure grains, although it

must be said that there are a number of reliable firms placing good compounded feeds upon the market.

How to Use Table No. 3.

Only the digestible nutrients are of value and so in comparing two feeds we should compare just the digestible nutrients. Suppose we had a cottonseed meal which analyzed 38 per cent protein. The table shows cottonseed meal protein to be 84 per cent digestible. We then would have 84/100 of 38 lbs., or 31.9 lbs. of digestible protein per 100 lbs. If a wheat bran analyzed 15 per cent protein, we see from the table that it is 78 per cent digestible and we would have 78/100 of 15 or 11.7 lbs. of digestible protein. The cottonseed meal would then have 31.9 lbs. compared with 11.7 in the wheat bran.

How to Figure the Comparative Value of Feeds from the Chemical Analysis.

Because such factors as palatability, digestibility, etc., play an important part in determining the value of feedstuffs it is difficult to make exact comparisons in their value from a chemical analysis. The analysis will, however, serve as a very valuable guide. Since the farmer can usually raise carbohydrates cheaper than he can purchase them he is chiefly interested in buying the concentrated feedstuffs for their protein and fat content.

Feeds may be compared upon the basis of the number of pounds of protein and fat which one dollar will buy. An example is as follows: Feed number 1 sells for $2.65 and is guaranteed protein 15.00 per cent, fat 4.00 per cent. If it contains 15.00 per cent protein there are 15 lbs. of protein in 100 lbs. of feed costing $2.65. Then one dollar buys 15÷2.65 or 5.6 lbs. of protein and 4.00÷2.65 or 1.5 lbs. of fat.

Feed number 2 sells for $4.10 and is guaranteed 17 per cent protein and 3 per cent fat. Then one dollar buys 17÷4.10 or 4.1 lbs. of protein and 3÷4.10 or 0.7 lbs. of fat.

In other words, in feed number one the consumer receives nearly 50 per cent more protein and twice as much fat per dollar as in feed number two. These figures represent two feeds of the same type which were sold in New Hampshire in 1920. In comparing feeds of the same class this method shows fairly accurately their relative value. When feeds of different types, like a cottonseed and a hominy feed, are compared, the digestible protein figures should be compared and the carbohydrates must also be taken into consideration.

Table Number 4 shows the average number of pounds of protein and fat that one dollar would buy for all of the feedstuffs analyzed in 1920.

TABLE NUMBER 4.

Class.	No. of Lbs. of Protein $1.00 will buy.	No. of Lbs. of Fat $1.00 will buy.
Alfalfa Meals	4.7	0.7
Beet Pulps	2.0	0.2
Brewer's Dried Grains	5.1	2.0
Calf Meals	4.7	1.4
Compounded Feeds	3.6	1.1
Cottonseed Meals	8.5	1.7
Dairy Feeds	5.8	1.4
Flaxseed Meals	7.2	1.5
Gluten Feeds	6.9	0.9
Hog Feeds	7.1	1.6
Hominy Feeds	3.0	1.7
Miscellaneous	5.5	1.3
Molasses Feeds	3.2	0.8
Oat Feeds	3.4	1.1
Poultry Feeds	5.5	1.4
Wheat Feeds	5.1	1.4

An inspection of this table will show the importance of buying your feeds according to their analysis. *Buy your feeds intelligently.*

Balancing the Ration.

It is not the purpose of this bulletin to furnish a practical treatise upon feeds and feeding. The Tables Nos. 5 and 6 are inserted here as a guide to the practical feeder. If you are not able to use them, ask your county agent to write to the New Hampshire College or the State Department of Agriculture for help. Feed intelligently. It will pay.

Some Suggestions in Purchasing Feeds.

1. A good feed is high in protein and fat, and low in crude fiber.

2. Poor feeds are low in protein and fat, and high in crude fiber.

3. Usually the more concentrated feeds are the most economical.

4. When comparing feeds of the same type, if they are sound, buy the one which offers the largest number of pounds of fat and protein for one dollar.

5. Compare the cost of feeds with their analysis, even within the same class, and buy the feeds which offer the greatest value per dollar.

6. Beware of misleading brand names, indicating unusual feeding value. Let the analysis rather than the brand name be your guide.

7. If you grow roughage for your dairy cattle, you can grow your carbohydrates cheaper than you can purchase them.

8. If you grow legumes or high protein crops for roughage you will need to buy less of the expensive protein feeds.

TABLE NUMBER 5.

Modified Wolff-Lehmann Feeding Standards for Farm Animals.

(Taken from "Feeds and Feeding" by Henry and Morrison)

	Digestible crude protein.	Total digestible nutrients.
1. Dairy Cows:		
For maintenance of 1,000 lbs. cow...	0.700 lb.	7.925 lb.
To the allowance for maintenance add		
For each lb. of 2.5 per cent milk.....	0.045–0.053	0.256
For each lb. of 3.0 per cent milk.....	0.047–0.057	0.286
For each lb. of 3.5 per cent milk.....	0.049–0.061	0.316
For each lb. of 4.0 per cent milk.....	0.054–0.065	0.346
For each lb. of 4.5 per cent milk.....	0.057–0.069	0.376
For each lb. of 5.0 per cent milk.....	0.060–0.073	0.402
For each lb. of 5.5 per cent milk.....	0.064–0.077	0.428
For each lb. of 6.0 per cent milk.....	0.067–0.081	0.454
For each lb. of 6.5 per cent milk.....	0.072–0.085	0.482
For each lb. of 7.0 per cent milk.....	0.074–0.089	0.505

TABLE NUMBER 6.

(Taken from "Feeds and Feeding" by Henry and Morrison.)

	Per day per 1,000 lbs. live weight.			
	Dry Matter.	Digestible Crude Protein.	Total Digestible Nutrients.	Nutrient Ratio.
	lb.	lb.	lb.	1:
Fattening 2-year-old steers on full feed.				
First 50-60 days	22.0–25.0	2.0–2.3	18.0–20.0	7.0– 7.8
Second 50-60 days	21.0–24.0	1.9–2.3	17.0–19.5	7.0– 7.8
Third 50-60 days	18.0–22.0	1.2–2.1	16.0–18.5	7.0– 7.8
Ox at rest in stall	13.0–21.0	0.6–0.8	8.4–10.4	10.0–16.0
Horses.				
Idle	13.0–18.0	0.8–1.0	7.0– 9.0	8.0– 9.0
At light work	15.0–22.0	1.1–1.4	10.0–13.1	8.0– 8.5
At medium work	16.0–24.0	1.4–1.7	12.8–15.6	7.8– 8.3
At heavy work	18.0–26.0	2.0–2.2	15.9–19.5	7.0– 8.0
Fattening Lambs.				
Weight 50-70 lbs	27.0–30.0	3.1–3.3	19.0–22.0	5.0– 6.0
Weight 70-90 lbs	28.0–31.0	2.5–2.8	20.0–23.0	6.7– 7.2
Weight 90-110 lbs	27.0–31.0	2.3–2.5	19.0–23.0	7.0– 8.0
Sheep Mature.				
Coarse wool	18.0–23.0	1.1–1.3	11.0–13.0	8.0– 9.1
Fine wool	20.0–26.0	1.4–1.6	12.0–14.0	7.5– 8.5
Growing fattening pigs.				
Weight 30-50 lbs.	46.2–51.0	7.8–8.5	41.0–45.4	4.0– 4.5
Weight 50-100 lbs.	37.0–40.8	5.5–6.0	32.9–36.4	5.0– 5.6
Weight 100-150 lbs.	32.4–35.8	4.4–4.9	28.8–31.9	5.5– 6.2
Weight 150-200 lbs.	29.0–32.0	3.5–3.9	25.8–28.5	6.2– 7.0
Weight 200-250 lbs.	25.5–28.1	3.0–3.4	22.7–25.0	6.5– 7.3
Weight 250-300 lbs.	22.4–24.8	2.6–2.9	20.0–22.0	6.7– 7.5

ANALYSES OF COMMERCIAL FEEDING STUFFS.

Brand and name and address of manufacturer.		Pounds in 100 lbs. of Feed Stuff.						Certified by manufacturer to contain
		Protein.	Fat.	Carbo-hydrates.	Ash.	Moist-ure.	Crude Fiber.	
ALFALFA MEALS								
Globe A-1 Alfalfa Meal	G.*	14.30	2.00	35.80	....	....	30.10	
Globe Mills	F.*	15.15	2.02	65.31	8.67	8.85	....	
Los Angeles, Cal.								
Algren Alfalfa Meal	G.	12.00	1.00	....	....	....	35.00	
Haywood Alfalfa Warehouse Co.	F.	14.54	2.33	68.42	5.79	8.92	....	
Kansas City, Mo.								
DRIED BEET PULPS								
Dried Beet Pulp	G.	8.00	0.50	60.00	....	....	20.00	
Max Hottelet	F.	8.45	0.58	81.59	2.71	6.67	....	
Milwaukee, Wis.								
Dried Beet Pulp	G.	8.00	0.50	58.00	....	....	20.00	Residue of sugar beets dried after extraction of sugar.
Larrowe Milling Co.	F.	9.31	0.35	81.05	2.64	6.65	....	
Detroit, Mich.								
Dried Beet Pulp and Molasses	G.	9.00	0.50	58.00	....	....	18.00	Dried beet pulp 90%
Larrowe Milling Co.	F.	8.32	0.84	79.38	2.94	8.52	17.94	Beet molasses 10%
Detroit, Mich.								
Dried Molasses Beet Pulp	G.	9.00	...	54.00	....	....	20.00	Composed only of residue of sugar
Larrowe Milling Co.	F.	10.59	0.83	76.69	3.07	8.82	18.37	beets, molasses and pulp, dried after extraction of sugar.
Detroit, Mich.								
Dried Beet Pulp	G.	8.00	0.50	50.00	....	....	20.00	Residue of sugar beet dried after extraction of sugar.
Charles Pope	F.	7.36	0.84	77.26	3.08	11.46	....	
Riverdale, Ill.								
Dried Beet Pulp	G.	8.00	0.50	60.00	....	....	20.00	
Ubiko Milling Co.	F.	9.63	0.51	76.45	2.94	10.47	....	
Cincinnati, Ohio.								
BREWER'S DRIED GRAINS								
Fleischmann's Dried Grains	G.	16.00	7.00	.....	....	....	21.00	Dried yeast grains from corn, barley
Fleischmann Co.	F.	15.37	6.71	67.35	3.35	7.22	....	malt, oat malt and sprouts.
Chicago, Ill.								

*The letters G. and F. refer respectively to Guaranteed and Found.

Brewer's Dried Grains	G.	24.00	6.00	.....	....	....	16.00	
Western Grain & Feed Co.	F.	20.05	7.08	60.46	3.94	8.47	15.38	
Chicago, Ill.								
CALF MEALS								
Blatchford's Calf Meal	G.	24.00	5.00	53.00	....	....	6.75	Locust bean meal, unpressed flaxseed, wheat flour, barley and malt sprouts
Blatchford Calf Meal Factory	F.	24.78	7.52	52.91	5.54	9.25	6.68	meal, ground beans and peas, rice polish, old process, oil meal, cocoa shell meal, cocoanut meal, recleaned cottonseed meal, fenugreek, dried milk, anise and salt.
Waukegan, Ill.								
International Calf Meal	G.	25.00	5.00	46.00	....	....	10.00	Cocoanut meal, wheat flour, blood meal,
International Sugar Feed Co.	F.	26.71	6.68	51.52	6.83	8.26	9.27	old process linseed oil meal, ground and bolted screenings from wheat, locust bean, fenugreek, anise, salt.
Minneapolis, Minn.								
Schumacker Calf Meal	G.	18.00	8.00	54.00	....	....	4.00	Oat meal, wheat meal, ground flaxseed,
Quaker Oats Co.	F.	18.65	8.05	60.56	4.67	8.07	3.85	milk albumen, old process linseed oil meal, ½ of 1% bicarbonate of soda, blood meal.
Chicago, Ill.								
Ryde's Cream Calf Meal	G.	25.00	5.00	.....	....	....	6.00	Ground flaxseed, wheat flour, locust
Ryde & Company	F.	25.18	6.61	53.40	5.79	9.02	6.86	bean meal, recleaned cottonseed meal, blood flour, beans and peas, cocoa shell meal, hominy feed, fenugreek, anise and salt.
Chicago, Ill.								
COMPOUNDED FEEDS								
Acme Stock Feed	G.	9.00	3.50	60.00	....	....	10.00	Corn, homlik, wheat bran, wheat mid-
Acme-Evans Co.	F.	8.50	2.56	74.72	2.89	11.33	8.24	dlings, hominy meal, oat feed, oat hulls, oat middlings, and salt.
Indianapolis, Ind.								
Ohio Farm Feed	G.	11.50	4.50	59.00	....	....	8.50	One half wheat middlings, one third
Ansted & Burk Co.	F.	13.75	4.92	66.24	4.80	10.29	7.88	corn bran and corn meal, balance wheat bran and ground and cleaned wheat screenings not exceeding mill run.
Springfield, Ohio.								
Portage Stock Feed	G.	8.50	4.00	.....	....	....	10.00	Made from either white or yellow
Akron Feed & Milling Co.	F.	10.42	2.67	74.23	4.45	8.23	11.35	shelled corn, barley, oat shorts, oat hulls, oat middlings, and ½ of 1% salt.
Akron, Ohio.								
Armour's Stock Feed	G.	12.00	4.00	60.00	....	....	12.00	Ground corn, hominy feed, wheat mid-
Armour Grain Co.	F.	13.19	4.47	68.26	5.13	8.95	10.76	dlings, grounnd barley, oat meal mill by-products, oat shorts, oat middlings, oat hulls, cottonseed meal, corn oil meal and ½ of 1% salt.
Chicago, Ill.								

Brand and name and address of manufacturer.		Pounds in 100 lbs. of Feed Stuff.						Certified by manufacturer to contain
		Protein.	Fat.	Carbohydrates.	Ash.	Moisture.	Crude Fiber.	
Badenock's Special Stock Feed	G.	8.00	3.00	.....	....	....	12.00	Hominy feed, corn feed meal, oat middlings, oat shorts, oat hulls, ground barley and salt.
J. J. Badenock	F.	9.50	3.04	74.08	4.85	8.53	11.26	
Chicago, Ill.								
Pennant Brand Stock Feed	G.	9.00	5.00	.....	....	....	10.00	Fine white hominy and oat by-products, oat middlings, oat hulls and oat shorts.
E. W. Bailey & Co.	F.	9.98	5.03	73.24	4.09	7.66	10.97	
Swanton, Vt.								
Blatchford's Pig Meal	G.	18.00	5.00	62.00	....	....	7.00	Old process oil meal, barley and malt sprouts meal, oats, corn, locust bean, cottonseed and cocoa shell meals, blood flour, ground beans and peas, unpressed flaxseed, wheat flour, rice polish, anise and salt.
Blatchford Calf Meal Factory	F.	20.80	5.01	58.28	5.13	10.78	6.19	
Waukegan, Ill.								
Bufceco Creamery Feed	G.	18.00	4.00	.....	....	....	12.00	Ground corn, hominy feed, corn gluten feed, cottonseed meal, oat shorts, oat hulls, wheat bran, wheat middlings, containing mill run ground screenings, ½ of 1% salt.
Buffalo Cereal Co.	F.	19.04	4.13	63.08	4.66	9.09	11.28	
Buffalo, N. Y.								
Bufceco Stock Feed	G.	10.00	4.00	60.00	....	....	13.00	Ground corn, oats and barley, corn gluten feed, hominy feed, oat shorts, oat hulls, wheat middlings, containing mill run of ground screenings, ½ of 1% salt.
Buffalo Cereal Co.	F.	11.42	4.27	70.50	4.18	9.63	9.89	
Buffalo, N. Y.								
Iroquois Chop Feed	G.	8.00	4.00	68.00	....	....	13.00	Ground corn, ground oats, ground barley, hominy feed, oat shorts, oat hulls, ½ of 1% salt.
Buffalo Cereal Co.	F.	8.93	4.88	71.47	4.07	10.65	13.19	
Buffalo, N. Y.								
Iroquois Stock Feed	G.	10.00	4.00	65.00	....	....	13.00	Corn feed meal, ground oats, ground barley, corn gluten feed, hominy feed, oat shorts, oat hulls, wheat bran and wheat middlings, containing mill run of ground screenings, ½ of 1% salt.
Buffalo Cereal Co.	F.	11.38	4.96	70.99	4.13	8.54	12.93	
Buffalo, N. Y.								

Corno Hog Feed	G.	16.00	5.00	50.00	....	....	10.00	Fine ground oat meal, gluten feed, corn feed meal, ground grain screenings and cottonseed meal.
Corno Mills Co., St. Louis, Mo.	F.	15.18	4.22	66.26	4.16	10.18	6.18	
Bicorn Hog Feed	G.	17.50	4.50	.....	....	....	6.00	Digester tankage, corn germ meal, wheat middlings, hominy feed, corn feed meal, barley, oats, linseed meal, bone meal, corn gluten feed and salt.
Chaplin & Co., Hammond, Ind.	F.	19.44	4.74	60.06	5.35	10.41	5.84	
Clover Leaf Mills Hog Meal	G.	18.00	5.00	60.00	....	....	10.00	Wheat middlings, digester tankage, corn germ meal, corn feed meal, linseed meal, ground wheat screenings, molasses and ½ of 1% salt.
Clover Leaf Milling Co., Buffalo, N. Y.	F.	18.83	5.09	56.69	11.61	7.78	6.62	
Cowee's Stock Feed	G.	9.00	4.00	.....	....	....	10.00	Ground oats, ground hominy meal, ground corn, ground barley, oat meal mill by-products, oat middlings, oat shorts, oat hulls, ½ of 1% salt.
E. A. Cowee Co., Worcester, Mass.	F.	8.19	4.01	75.46	3.75	8.59	11.23	
Nu-Life Stock Feed	G.	8.00	3.00	.....	....	....	12.00	White hominy, ground barley, standard middlings, oil meal, oat feed, salt.
Fred L. Cressey, Boston, Mass.	F.	11.21	3.30	70.51	5.20	9.78	11.96	
Crosby's Stock Feed	G.	9.00	4.00	60.00	....	....	10.00	Ground barley, ground hominy feed, ground oats, oat feed, oat hulls, oat shorts, oat middlings.
E. Crosby & Co., Brattleboro, Vt.	F.	9.50	5.20	72.98	3.71	8.61	9.78	
Cushing's Stock Feed	G.	11.00	3.50	.....	....	....	10.00	Linseed oil meal, hominy feed, red dog flour, ground oats, ground corn, ground barley, cottonseed meal, oat meal mill by-products and salt.
J. Cushing Co., Fitchburg, Mass.	F.	13.14	3.54	69.42	3.64	10.26	9.67	
Vigor Stock Feed	G.	10.00	3.00	.....	....	....	12.00	Ground barley, oat feed, hominy, corn meal, wheat feeds.
J. Cushing Co., Fitchburg, Mass.	F.	12.52	3.62	69.93	5.37	8.56	10.67	
Diamond A Hog Meal	G.	18.00	6.00	50.00	....	....	9.00	Corn feed meal, wheat middlings, rice meal, digester tankage, copra meal, ½ of 1% salt.
Foster Grain Co., Lowell, Mass.	F.	18.00	4.70	60.33	7.34	9.63	8.64	
Diamond A Stock Feed	G.	9.00	4.00	60.00	....	....	9.50	Hominy meal, corn meal, 2d class flour, ground barley, rice meal, ground oats, oat meal by-products, oat middlings, oat shorts, oat hulls, ½ of 1% salt.
Foster Grain Co., Lowell, Mass.	F.	8.79	3.61	70.38	4.46	12.76	9.18	

Brand and name and address of manufacturer.		Pounds in 100 lbs. of Feed Stuff. Protein.	Fat.	Carbo-hydrates.	Ash.	Moist-ure.	Crude Fiber.	Certified by manufacturer to contain
Grandin's Stock Feed	G.	10.00	4.00	55.00	....	....	14.00	Ground corn, ground oats, ground barley, hominy feed, wheat middlings, oat hulls, oat shorts, a small per cent of salt, wheat middlings, ground screenings not exceeding mill run.
D. H. Grandin Milling Co. Jamestown, N. Y.	F.	11.69	4.88	70.35	4.43	8.65	13.04	
Greene's Stock Feed	G.	6.00	3.00	.....	....	....	10.00	Hominy feed, oat feed, alfalfa meal, grain screenings and salt.
Greene Chick Feed Co. Marblehead, Mass.	F.	11.91	3.48	67.69	8.71	8.21	7.48	
Badger Monopoly Feed	G.	10.00	3.50	.....	....	....	10.00	Ground whole corn, oats and barley.
Charles A. Krause Milling Co. Milwaukee, Wis.	F.	12.61	3.67	69.74	2.97	11.01	9.88	
Stock Feed	G.	12.00	3.00	60.00	....	....	12.00	
McQuesten & Lewis Manchester, N. H.	F.	15.50	4.48	67.16	4.14	8.72	11.47	
Pennant Quality Feed	G.	15.00	3.75	49.00	....	....	8.50	
National Milling Co. Toledo, Ohio.	F.	15.68	3.75	63.80	5.15	11.62	6.49	
Go-Tu-It Hog Ration	G.	15.00	6.00	30.00	....	....	13.00	Cocoanut oil meal, velvet bean feed, peanut feed, rice bran, old process linseed oil meal, alfalfa meal, hominy meal, oat hulls, oat middlings, oat shorts, fish, meat, bone meal, corn meal, corn germ meal, wheat middlings, salt, and calcium carbonate.
Park & Pollard Co. Boston, Mass.	F.	17.73	6.23	55.53	11.32	9.19	9.59	
Stock Feed	G.	9.00	1.50	.....	....	....	12.00	Corn, hominy feed and oat feed.
Park & Pollard Co. Boston, Mass.	F.	6.53	2.28	77.71	6.32	7.16	19.39	
Purina O-Molene	G.	9.70	3.20	67.00	....	....	8.00	Cracked corn, oats, ground alfalfa, molasses and 1% salt.
Ralston Purina Co. St. Louis, Mo.	F.	10.38	4.03	71.71	4.00	9.88	8.90	
Purina Pig Chow	G.	15.00	2.50	59.00	....	....	9.00	Hominy feed, cane molasses, ground barley, gluten feed from corn, cracked corn, digester tankage, linseed oil meal, alfalfa, charcoal and 1% salt.
Ralston Purina Co. St. Louis, Mo.	F.	21.85	3.62	56.64	7.64	10.25	8.79	

Iowa Stock Feed	G.	10.00	4.00	.....	....	....	12.75	Wheat middlings, corn meal, hominy feed, brewer's dried grains, corn gluten feed, oat meal mill by-products, oat shorts, oat hulls, oat middlings and 1% table salt.
Purity Oats Co. Davenport, Iowa.	F.	11.12	3.88	73.42	3.83	7.75	10.53	
Schnmacher (FS) Feed	G.	10.00	3.25	62.00	....	....	10.00	Ground corn, hominy feed, corn feed meal, by-products from manufacturer of hominy and corn meal by degermenator process with partial extraction of oil, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-products, oat middlings, oat hulls, oat shorts, ½ of 1% salt.
Quaker Oats Company Chicago, Ill.	F.	10.82	2.99	72.29	3 74	10.16	10.86	
White Diamond Feed	G.	8.00	3.25	62.00	....	....	9.00	Ground corn, hominy feed, corn feed meal, by-products from manufacturer of hominy and corn meal by degerminator process with partial extraction of oil, oat meal mill by-products, oat middlings, oat hulls, oat shorts, ½ of 1% salt.
Quaker Oats Company Chicago, Ill.	F.	7.54	2.95	76 03	2.80	10.68	8.84	
Victor Feed	G.	8.00	3.00	62.00	....	....	12.00	Ground corn, hominy feed, yellow hominy feed, oat meal mill by-products, oat middlings, oat hulls, oat shorts, ½ of 1% salt, calcium phosphate.
Quaker Oats Company Chicago, Ill.	F.	8.19	3.02	75.20	3.17	10.42	12.93	
New Hampshire Stock Feed	G.	13.00	5.00	52.00	....	....	9.00	Ground fancy oats, hominy, bran, oil meal.
Rockingham County Farmer's Association. Exeter, N. H.	F.	13.40	4.70	70.28	3.33	8.29	7.09	
New Hampshire Pig Ration	G.	15.00	3.00	49.00	....	....	7.00	Ground fancy oats, flour middlings, high grade meat scraps.
Rockingham County Farmer's Association. Exeter, N. H.	F.	15.94	3.39	63.99	4.72	11.96	4.08	
Whirthmore Balanced Ration	G.	25.00	5.00	50.00	....	....	9.50	Cottonseed meal, linseed oil meal, corn gluten feed, fancy distillers grains, wheat bran, choice yeast grains, hominy or corn meal, ¾ of 1% dairy salt.
St. Albans Grain Co. St. Albans, Vt.	F.	25.94	5.26	56.33	5.13	7.34	9.37	
Charlestock Feed	G.	7.00	3.00	50.00	....	....	14.00	Oat feed, oat meal mill by-products, oat shorts, oat middlings, oat hulls, hominy or corn meal, second class flour and ½ of 1% salt.
St. Albans Grain Co. St. Albans, Vt.	F.	9.50	4.39	72.41	4.53	9.17	11.78	

Brand and name and address of manufacturer.	Pounds in 100 lbs. of Feed Stuff.						Certified by manufacturer to contain
	Protein.	Fat.	Carbo-hydrates.	Ash.	Moist-ure.	Crude Fiber.	
Wirthmore Hog Feed	G. 17.00	6.00	50.00	....	....	7.00	Tankage, wheat middlings, hominy, corn meal, linseed meal, peanut feed, red dog flour, corn feed meal, about ½ of 1% salt.
St. Albans Grain Co.	F. 18.04	5.78	53.11	13.01	10.06	6.86	
St. Albans, Vt.							
Wirthmore Pig Feed	G. 18.00	5.00	50.00	....	....	14.00	Tankage, edible bone meal, peanut feed, wheat middlings, wheat bran, linseed meal, ground alfalfa, ground hominy, corn meal, and about ½ of 1% salt
St. Albans Grain Co.	F. 22.94	5.02	50.13	11.15	10.76	5.07	
St. Albans, Vt.							
Wirthmore Stock Feed	G. 9.00	4.00	60.00	....	....	9.50	Ground barley, ground oats, ground hominy meal, ground corn, oat middlings, oat shorts, oat hulls, ½ of 1% salt, and second-class flour.
St. Albans Grain Co.	F. 11.73	4.43	69.40	5.54	8.90	10.38	
St. Albans, Vt.							
Stott's Winner Chop	G. 10.00	5.00	68.87	....	....	10.00	Corn meal, oat screenings, oat hulls, and salt.
David Stott Flour Mills	F. 7.65	3.57	74.31	3.18	11.29	10.53	
Detroit, Mich.							
National Stock Feed	G. 10.50	3.00	.....	....	....	12.00	Linseed oil meal, wheat bran with screenings not exceeding mill run, oat meal mill by-products, oat middlings, oat hulls, oat shorts, ground oats, corn feed meal.
Stratton-Ladish Milling Co.	F. 11.56	4.23	69.44	4.95	9.82	11.41	
Milwaukee, Wis.							
Stratton & Co.'s Kentucky Horse Feed	G. 9.46	3.00	72.93	....	....	12.00	Yellow corn meal, oat feed, reground cereal mill by-products, choice green alfalfa.
Stratton & Co.	F. 8.85	2.72	73.87	3.83	10.73	12.99	
Concord, N. H.							
Stratton & Co.'s Stock Feed (24)	G. 7.50	2.83	66.00	3.70	9.60	14.43	Cereal by-products, reground oat feed and oat middlings and shorts, corn bran, corn mill by-products, corn siftings, best fine yellow corn meal.
Stratton & Co.	F. 8.01	3.24	75.41	3.38	9.96	14.37	
Concord, N. H.							
Syragold Stock Feed	G. 10.00	3.00	.....	....	....	13.00	Ground corn, oats, barley, corn gluten feed, oat hulls, oat middlings, hominy, cottonseed meal, oat shorts and salt.
Syracuse Milling Co.	F. 10.16	2.65	72.90	5.11	9.18	16.14	
Syracuse, N. Y.							

Stock Feed	G.	10.00	3.50	62.00	....	....	12.00	Hominy meal, ground barley, reground oat feed, oat hulls, oat shorts, oat middlings, wheat bran and middlings, old process linseed meal and salt.
Ubiko Milling Co. Cincinnati, Ohio.	F.	10.12	4.68	70.99	5.34	8.87	11.18	
Union Grains, Biles Ready Ration	G.	24.00	5.00	50.00	....	....	10.00	Corn, distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy, cocoanut oil meal, corn, gluten dried grains, barley, malt, ½ of 1% salt (table).
Ubiko Milling Co. Cincinnati, Ohio.	F.	25.66	5.46	56.21	5.89	6.78	9.86	
Blue Seal Stock Feed	G.	10.00	4.00	.....	....	....	8.00	Ground oats, hominy, wheat feed, corn meal, oat feed, barley and not over ½ of 1% salt.
H. K. Webster Co. Lawrence, Mass.	F.	9.48	3.97	74.38	4.22	7.95	11.59	
Wentworth Stock Feed	G.	9.00	4.00	.....	....	....	14.00	
Wentworth Bros. Cornish, Maine.	F.	9.00	2.61	73.75	2.99	11.65	9.50	
COTTONSEED MEALS								
Paramount Brand Good Cottonseed Meal.	G.	36.00	5.50	27.00	....	....	14.00	Made from upland cotton seed.
Ashcraft-Wilkinson Co. Atlanta, Ga.	F.	35.16	7.88	44.93	5.57	6.46	11.32	
Jay Brand Cottonseed Meal	G.	36.00	5.00	30.00	....	....	14.00	A mixture of cottonseed meal and cottonseed hulls.
F. W. Brode & Co. Memphis, Tenn.	F.	39.45	7.94	38.86	6.07	7.68	....	
Buckeye Good Cottonseed Meal	G.	36.00	5.00	30.00	....	....	14.00	
Buckeye Cotton Oil Co. Cincinnati, Ohio.	F.	37.79	8.09	41.33	6.19	6.60	....	
Buco Mixed Feed	G.	20.00	3.50	38.00	....	....	27.00	Cottonseed meal and hulls.
Buckeye Cotton Oil Co. Atlanta, Ga.	F.	20.05	3.60	62.90	4.61	8.84	....	
Good Cottonseed Meal	G.	36.00	5.50	27.00	....	....	14.00	Made from upland cottonseed only.
W. D. Hall Co. Atlanta, Ga.	F.	43.43	7.22	37.14	5.27	6.94	....	
77 Cotton Seed Feed	G.	20.00	4.00	35.00	....	....	28.00	Cottonseed meal and delinted cottonseed hulls.
Humphreys-Godwin Company Memphis, Tenn.	F.	20.14	3.69	62.54	4.55	9.08	....	
Danish Brand Cottonseed Meal	G.	36.00	5.00	25.00	....	....	15.00	Pressed cottonseed.
Humphreys-Godwin Co. Memphis, Tenn.	F.	38.61	7.41	41.92	5.46	6.60	....	
Thirty-Six Brand Cottonseed Meal	G.	36.00	5.00	28.50	....	....	14.00	
L. B. Lovitt & Co. Memphis, Tenn.	F.	35.69	6.42	44.67	6.13	7.09	....	

Brand and name and address of manufacturer.		Pounds in 100 lbs. of Feed Stuff. Protein.	Fat.	Carbo-hydrates.	Ash.	Moist-ure.	Crude Fiber.	Certified by manufacturer to contain
Economy Cottonseed Feed	G.	36.00	5.00	27.00	....	....	14.00	Cottonseed meal and cottonseed hulls.
Lyle & Lyle	F.	33.65	6.53	46.63	5.52	7.67	14.30	
Huntsville, Ala.								
Upland Cottonseed Meal	G.	36.00	5.00	30.00	....	....	15.00	
Park and Pollard Co.	F.	34.70	8.87	44.59	5.93	5.91	....	
Boston, Mass.								
Cottonseed Meal	G.	36.00	5.00	.....	....	....	14.00	
Planter's Cotton Oil Co.	F.	34.94	6.82	46.13	6.11	6.00	....	
Augusta, Ga.								
Puritan Cottonseed Meal	G.	36.00	5.00	30.00	....	....	15.00	
J. E. Soper Co.	F.	41.29	6.91	39.88	5.31	6.61	....	
Boston, Mass.								
Good Cottonseed Meal	G.	36.00	5.50	27.00	....	....	14.00	Upland cottonseed only.
Taylor Commission Company	F.	34.59	7.39	45.16	5.98	6.88	11.74	
Atlanta, Ga.								
Surety Brand Cottonseed Meal	G.	36.00	5.50	27.00	....	....	14.00	
Union Seed & Fertilizer Co.	F.	33.71	7.33	45.61	5.60	7.75	12.29	
Montgomery, Ala.								
Cottonseed Meal	G.	....	...	.....	....	....	....	
E. J. York	F.	36.72	7.91	43.73	6.11	5.53	....	
Dover, N. H.								
DAIRY FEEDS								
Armour's Dairy Feed	G.	22.00	5.00	50.00	....	....	14.00	Corn gluten feed, corn germ meal, cocoanut oil meal, wheat bran, hominy feed, oat shorts, oat middlings, oat hulls, 1% salt.
Armour Grain Co.	F.	24.26	5.03	56.36	6.05	8.30	12.21	
Chicago, Ill.								
Iroquois Creamery Feed	G.	18.00	4.00	58.00	....	....	13.00	Corn feed meal, hominy feed, corn gluten feed, cottonseed meal, oat hulls, oat shorts, wheat bran and wheat middlings, ½ of 1% salt.
Buffalo Cereal Co.	F.	19.18	5.04	61.57	5.33	8.88	11.42	
Buffalo, N. Y.								

Triangle Dairy Feed	G.	21.00	4.00	50.00	....	....	12.00	Cottonseed meal, linseed meal, corn gluten feed, corn oil meal, brewer's dried grains, wheat bran with mill run of screenings, corn gluten meal, hominy meal, barley, ground oats, corn meal, and salt.
Chapin & Co.	F.	19.55	4.50	61.39	5.88	8.68	10.76	
Hammond, Ind.								
Advanced Registry Dairy Feed	G.	25.00	5.50	50.00	....	....	11.00	Cottonseed meal, pure old process linseed meal, cocoanut oil meal, corn gluten feed, dried grains from barley, malt and corn, hominy feed, wheat middlings and ½ of 1% salt.
Clover Leaf Milling Co.	F.	26.93	6.26	52.34	5.51	8.96	10.06	
Buffalo, N. Y.								
Master Grain Ration	G.	24.00	5.00	50.00	....	....	10.00	Molasses, dried grains from barley, malt and corn, wheat bran, standard middlings, linseed meal, corn gluten feed, cocoanut oil meal, cottonseed meal and ½ of 1% salt.
Clover Leaf Milling Co.	F.	25.35	5.97	53.80	6.82	8.06	7.36	
Buffalo, N. Y.								
Peerless Milk Ration	G.	20.00	5.00	50.00	....	....	12.00	Cottonseed meal, pure old process linseed meal, cocoanut oil meal, dried grains from barley, malt and corn, cleaned ground corn, cleaned and bolted grain screenings, ground and bolted clipped oat by-products, molasses and ½ of 1% salt.
Clover Leaf Milling Co.	F.	20.05	5.35	57.36	8.15	9.09	11.77	
Buffalo, N. Y.								
1917 Dairy Ration	G.	22.50	5.50	45.00	....	....	9.00	Gluten feed, linseed meal, cottonseed meal, cocoanut oil meal, ground oats, wheat bran and wheat middlings.
E. A. Cowee Co.	F.	23.29	5.71	56.42	4.39	10.19	8.76	
Worcester, Mass.								
Nu-Life Balanced Ration	G.	22.00	4.00	.....	....	....	10.00	Beet pulp, corn gluten, cottonseed meal, ground oats, cocoanut oil meal, middlings, ground barley, corn feed meal and salt.
Fred L. Cressey	F.	22.55	5.63	57.16	5.87	8.79	10.63	
Boston, Mass.								
Crosby's 1918 Dairy Ration	G.	25.00	6.00	59.00	....	....	15.00	Distiller's dried grains, cottonseed meal, peanut meal, brewer's dried grains, hominy feed, oat feed, oat hulls, oat shorts, oat middlings.
E. Crosby & Co.	F.	25.09	7.57	54.22	4.79	8.33	12.23	
Brattleboro, Vt.								
Crosby's Ready Ration	G.	25.00	7.00	59.00	....	....	9.00	Distiller's dried grains, cottonseed meal, oil meal, malt sprouts, wheat bran, wheat middlings, hominy feed and ½ of 1% salt.
E. Crosby & Co.	F.	23.73	4.89	57.41	5.49	8.48	10.68	
Brattleboro, Vt.								

Brand and name and address of manufacturer.	Pounds in 100 lbs. of Feed Stuff.						Certified by manufacturer to contain
	Protein.	Fat.	Carbohydrates.	Ash.	Moisture.	Crude Fiber.	
Cushing's Dairy Feed J. Cushing & Co. Fitchburg, Mass.	G. 24.00 F. 24.13	5.00 4.43	..... 56.49	.... 5.53	.... 9.42	10.00 10.47	Cottonseed meal, corn gluten feed, linseed meal, malt sprouts, ground oats, ground barley, hominy feed, copra oil meal, wheat bran with screenings not exceeding mill run.
Diamond A Dairy Ration Foster Grain Co. Lowell, Mass.	G. 24.00 F. 23.72	6.00 4.76	50.00 56.49	.... 5.01	.... 10.02	12.00 9.33	Old process oil meal, dried brewer's grains, cottonseed meal, corn gluten meal, wheat bran, wheat middlings, copra meal, and ¾ of 1% salt.
Grandin's Milk Maker D. H. Grandin Milling Co. Jamestown, N. Y.	G. 20.00 F. 20.58	5.00 5.34	50.00 58.31	.... 5.53	.... 10.24	12.00 10.82	Linseed oil meal, cottonseed meal, rice bran, wheat bran, wheat middlings, alfalfa meal, corn gluten feed, wheat middlings with palm oil, corn flakes and a small per cent salt.
Grandin's Twin Six (12) Dairy Feed D. H. Grandin Milling Co. Jamestown, N. Y.	G. 22.00 F. 24.52	5.00 5.46	50.00 54.94	.... 6.05	.... 9.03	13.50 11.68	Linseed oil meal, cottonseed meal, corn gluten feed, rice bran, wheat bran, wheat middlings, alfalfa meal, hominy meal, wheat middlings with palm oil, corn flakes and a small per cent salt.
Stevens 44 Dairy Ration Park & Pollard Co. Boston, Mass.	G. 24.00 F. 26.36	5.00 5.76	..... 54.54	.... 5.24	.... 8.10	14.00 12.06	Linseed oil meal, cottonseed meal, wheat bran with mill run of screenings, corn gluten feed, cocoanut oil meal, pea meal, corn distiller's grains, brewer's dried grains, ground barley, wheat middlings, hominy feed, corn germ meal, buckwheat middlings, corn meal, salt.
Big Q Dairy Ration Quaker Oats Co. Chicago, Ill.	G. 21.00 F. 21.01	5.00 5.02	50.00 60.96	.... 5.57	.... 7.44	11.00 10.48	Cottonseed meal, corn distiller's grains, corn gluten feed, linseed meal, yellow hominy feed, wheat middlings, wheat bran, with ground screenings not exceeding mill run, oat meal mill by-products, oat middlings, oat hulls, oat shorts and 1% salt.

International Diamond Dairy Feed.....							
International Sugar Feed Co.....	G.	24.00	5.00	42.00	....	....	10.00	Corn gluten feed, wheat bran, linseed oil meal, cottonseed meal, molasses, ground and bolted screenings from wheat, salt.
Minneapolis, Minn.	F.	25.48	5.41	51.57	8.25	9.29	9.67	
International Ready Ration.....							
International Sugar Feed Co.....	G.	20.00	5.00	45.00	....	....	15.00	Cottonseed meal, old process linseed oil meal, wheat bran, ground clipped oats by-products, ground cleaned grain screenings, molasses, salt.
Minneapolis, Minn.	F.	21.41	6.12	53.55	8.98	9.94	11.87	
International Special Dairy Feed.....							
International Sugar Feed Co.....	G.	15.00	4.50	50.00	....	....	15.00	Old process oil meal, cottonseed meal, corn gluten feed, wheat bran, molasses, ground clipped oats by-products, salt, ground cleaned grain screenings.
Minneapolis, Minn.	F.	16.11	4.61	61.11	10.28	7.89	14.72	
Larro Feed, Ready Ration.....							
Larrowe Milling Co.....	G.	20.00	3.00	50.00	....	....	14.00	Cottonseed meal, corn gluten feed, old process linseed oil meal, dried beet pulp, wheat bran and wheat middlings, ¾ of 1% salt. Bran and middlings contain ground screenings not exceeding mill run.
Detroit, Mich.	F.	20.93	4.26	61.10	5.50	8.21	12.82	
Larrowe's Big Six Dairy Feed.....	G.	21.00	4.00	48.00	....	....	12.00	Linseed oil meal, cottonseed meal, corn gluten feed, hominy feed, wheat bran, wheat middlings, and ¾ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.
Larrowe Milling Co.....	F.	21.63	5.69	59.65	5.22	7.81	7.88	
Detroit, Mich.							
Bull Brand Dairy Ration.....	G.	24.00	5.00	50.00	....	....	12.00	Dried brewer's grains, dried malt, oil meal, cottonseed meal, corn gluten feed, hominy feed, cocoanut meal, wheat bran, wheat middlings, ground barley, and ¾ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.
Maritime Trading Corp.....	F.	22.40	5.68	55.79	6.43	9.70	9.90	
Buffalo, N. Y.							
Hi-Test Dairy Feed.....	G.	20.00	5.00	50.00	....	....	14.00	Corn gluten feed, linseed oil meal, cocoanut oil meal, cottonseed meal, wheat bran, yeast grains barley feed, clipped oat by-products, ¾ of 1% salt. Wheat bran contains ground screenings not exceeding mill run.
Maritime Trading Corp.....	F.	19.20	4.78	61.40	6.15	8.47	13.22	
Buffalo, N. Y.							

Brand and name and address of manufacturer.	Pounds in 100 lbs. of Feed Stuff.						Certified by manufacturer to contain
	Protein.	Fat.	Carbo-hydrates.	Ash.	Moist-ure.	Crude Fiber.	
Purina Cow Chow Feed	G. 24.00	4.80	53.00	....	....	12.00	Linseed oil meal (old process), gluten feed from corn, hominy feed, cottonseed meal, ground alfalfa, molasses and one per cent of salt.
Ralston Purina Co. Buffalo, N. Y.	F. 25.22	5.17	56.16	5.49	7.96	11.09	
New Hampshire Dairy Ration	G. 23.00	5.00	43.00	....	....	9.00	Ground fancy oats, oil meal, bran, cottonseed meal, gluten feed.
Rockingham County Farmer's Association. Exeter, N. H.	F. 21.34	4.29	60.35	4.86	9.16	8.09	
Paragon Dairy Feed	G. 22.00	4.00	44.00	....	....	14.00	Cottonseed meal, linseed meal, distilled grains, corn gluten feed, oat feed, oat middlings, oat shorts, oat hulls and not over 1% salt.
St. Albans Grain Co. St. Albans, Vt.	F. 23.03	4.67	59.15	5.59	7.56	13.76	
Record Maker Dairy Feed	G. 24.00	4.50	45.00	....	....	13.00	Cottonseed meal, corn gluten feed, linseed meal, ground oats, ground barley, hominy feed, copra oil meal, cocoanut oil meal, alfalfa, molasses, wheat bran with ground screenings not exceeding mill run, and salt.
Stratton-Ladish Milling Co. Milwaukee, Wis.	F. 25.79	5.45	52.52	5.98	10.26	8.83	
Syragold Milk Ration	G. 20.00	4.50	43.00	....	....	15.00	Dried brewer's grains, malt sprouts, corn gluten feed, linseed meal, wheat bran with mill run screenings, cottonseed meal, ground cottonseed hulls and salt.
Syracuse Milling Co. Syracuse, N. Y.	F. 21.63	4.93	59.47	5.31	8.66	13.96	
Fourex Dairy Ration	G. 20.00	4.00	52.00	....	....	12.00	Cottonseed meal, linseed meal, hominy feed, wheat bran and middlings, gluten feed, reground oat feed, oat hulls, oat shorts, oat middlings, rye middlings, malt sprouts and salt.
Ubiko Milling Co. Cincinnati, Ohio.	F. 20.93	4.38	60.06	5.96	8.67	10.91	

FLAXSEED MEALS								
Old Process Linseed Oil Meal	G.	34.00	6.00	.....	....	....	9.00	
American Linseed Company, Chicago, Ill.	F.	29.82	5.78	49.73	6.16	8.51	8.16	
Old Process Oil Meal	G.	34.00	5.00	.....	....	....	8.00	
American Linseed Co., New York, N. Y.	F.	34.54	6.36	45.53	5.37	8.20	....	
Old Process Linseed Meal	G.	30.00	5.00	30.00	....	....	10.00	
American Milling Co., Peoria, Ill.	F.	31.26	6.74	47.17	5.09	9.74	....	
Old Process Ground Oil Cake	G.	33.00	6,00	.....	....	....	10.00	
Archer-Daniels Linseed Co., Buffalo, N. Y.	F.	32.21	7.51	45.51	5.67	9.10	7.06	
Pure Old Process Linseed Oil Meal	G.	33.00	6.00	.....	....	....	10.00	
Mann Bros. Co., Buffalo, N. Y.	F.	29.48	6.92	48.57	6.05	8.98	7.99	
Old Process Ground Linseed Cake	G.	32.00	5.00	.....	....	....	9.50	
Midland Linseed Products Co., Minneapolis, Minn.	F.	29.61	6.65	48.61	6.17	8.96	8.11	
Pure Old Process Oil Meal	G.	33.00	5.00	.....	....	....	10.00	
Spencer Kellogg & Sons, Inc., Buffalo, N. Y.	F.	35.20	6.77	45.16	5.17	7.70	....	
GLUTEN FEEDS								
Cream of Corn Gluten Feed	G.	23.00	1.50	.....	....	....	8.00	
American Maize Products Co., New York, N. Y.	F.	24.04	3.70	62.76	1.76	7.74	....	
Clinton Corn Gluten Feed	G.	23.00	3.00	52.00	....	....	8.00	
Clinton Sugar Refining Co., Clinton, Iowa	F.	24.65	3.02	61.04	1.91	9.38	....	
Buffalo Corn Gluten Feed	G.	23.00	1.00	.....	....	....	8.50	Corn gluten feed.
Corn Products Refining Co., New York, N. Y.	F.	25.66	2.25	59.36	2.97	9.76	....	
Diamond Corn Gluten Meal	G.	40.00	1.00	.....	....	....	4.00	Corn gluten meal.
Corn Products Refining Co., New York, N. Y.	F.	41.42	3.72	43.57	2.51	8.78	....	
Jenks' Corn Gluten Feed	G.	22.00	3.00	.....	....	....	8.00	Not colored, corn starch by-product
Huron Milling Co., Harbor Beach, Mich.	F.	22.42	4.14	62.92	2.97	7.55	....	with corn bran.
Staley's Corn Gluten Feed	G.	23.00	2.50	50.00	....	....	10.00	
A. E. Staley Mfg. Co., Decatur, Ill.	F.	28.94	2.92	55.77	1.39	10.98	....	
Continental Corn Gluten Feed	G.	23.00	2.00	.....	....	....	9.50	Corn gluten feed.
U. S. Food Products Corp., Peoria, Ill.	F.	23.77	5.82	60.67	2.89	6.85	....	

Brand and name and address of manufacturer.	Pounds in 100 lbs. of Feed Stuff.						Certified by manufacturer to contain
	Protein.	Fat.	Carbo-hydrates.	Ash.	Moist-ure.	Crude Fiber.	
HOG FEEDS							
Hinckley Hog Tankage	G. 30.00	5.00	.....	....	....	....	
Hinckley Rendering Co. Somerville, Mass.	F. 34.06	6.94	.....	47.25	4.62	1.76	
Larrowe Hog Feed	G. 18.00	5.00	48.00	5.00	....	10.00	Wheat middlings, wheat bran, corn germ meal, hominy feed, dried beet pulp, meat meal, old process linseed oil meal, ½ of 1% salt.
Larrowe Milling Co. Detroit, Mich.	F. 20.75	5.34	57.59	6.98	9.34	9.36	
HOMINY FEEDS							
Hominy Feed	G. 10.00	5.00	.....	....	....	7.00	
Armour Grain Co. Chicago, Ill.	F. 11.60	6.19	70.67	2.51	9.03	....	
Spring Garden Hominy Feed	G. 10.00	5.00	60.00	....	....	6.00	
Baltimore Pearl Hominy Co. Baltimore, Md.	F. 9.81	4.88	73.85	2.53	8.93	....	
Badger Hominy Feed	G. 10.00	6.00	.....	....	....	5.00	White corn.
Charles A. Krause Milling Co. Milwaukee, Wis.	F. 10.90	6.06	70.94	2.36	9.74	....	
Choice Hominy Feed	G. 10.00	4.00	.....	....	....	3.00	
Miner-Hillard Milling Co. Wilkesbarre, Pa.	F. 10.51	5.92	71.86	2.36	9.35	....	
Yellow Hominy Feed	G. 9.50	4.00	66.00	....	....	4.00	
Quaker Oats Co. Chicago, Ill.	F. 11.21	6.22	70.45	2.46	9.66	....	
Blue Ribbon Hominy Chop	G. 10.00	6.00	.....	....	....	5.00	
J. E. Soper Co. Boston, Mass.	F. 11.12	6.02	70.16	2.93	9.77	....	
MISCELLANEOUS FEEDS							
Barley Feed	G.	....	.....	....	....	....	
J. Cushing & Co. Fitchburg, Mass.	F. 9.79	2.30	75.50	3.19	9.22	....	
Dog Food	G. 20.00	5.00	.....	....	....	....	
John C. Daw Co. Boston, Mass.	F. 22.99	6.86	51.57	6.30	12.28	....	

"Jesco" Velvet Bean Feed	G.	17.00	4.00	45.00	....	....	13.00	Ground velvet beans and pods.
J. E. Soper Co.	F.	15.42	3.06	66.03	5.51	9.98	....	
Boston, Mass.								
Ground Whole Pressed Peanuts	G.	36.00	6.00	.....	....	....	20.00	
Wills Point Cotton Oil Co.	F.	34.60	7.79	45.48	3.55	8.58	....	
Wills Point, Texas.								
MOLASSES FEEDS								
Nu-Life Alfalfa Horse Feed	G.	8.00	3.00	.....	....	....	15.00	Cracked oats, cracked corn, alfalfa meal and molasses.
Fred L. Cressey	F.	9.85	2.75	71.14	5.57	10.69	16.41	
Boston, Mass.								
Manhattan Horse Feed	G.	9.00	1.00	35.00	....	....	18.00	Cracked corn, crimped oats, oat meal mill by-products, oat middlings, oat hulls, oat shorts, alfalfa meal, molasses, salt.
Stratton-Ladish Milling Co.	F.	12.08	2.09	67.32	5.08	13.43	17.68	
Milwaukee, Wis.								
Stra-Lad Horse Feed	G.	9.50	2.50	.....	....	....	11.00	Cracked corn, alfalfa meal, molasses, crimped oats and salt.
Stratton-Ladish Milling Co.	F.	11.12	3.66	68.89	3.26	13.07	10.96	
Milwaukee, Wis.								
OAT FEEDS								
Oat Hulls	G.	5.00	2.00	.....	....	....	30.00	
Armour Grain Co.	F.	6.62	2.03	77.74	6.86	6.75	29.37	
Chicago, Ill.								
Oat Hulls	G.	....	...	.....	....	....	....	
Donahue Stratton & Co.	F.	7.67	2.03	78.93	6.44	4.93	25.49	
Milwaukee, Wis.								
Oat Feed	G.	5.25	2.50	.....	....	....	28.00	
Robin Hood Mills	F.	6.83	2.87	77.95	5.59	6.76	23.01	
Moose Jaw, Canada								
POULTRY FEEDS								
Dickerson's Globe Egg Mash	G.	20.00	5.00	55.00	....	....	10.00	Wheat bran, wheat middlings, alfalfa meal, ground corn bran, corn feed meal, linseed oil meal, scraps, salt, ½ of 1%.
Albert Dickerson Co.	F.	20.45	5.24	60.75	5.94	7.62	9.47	
Chicago, Ill.								
Protox Pure Ground Meat Scraps	G.	55.00	10.00	.....	....	....	....	Made from meat scraps.
American Agricultural Chemical Co.	F.	57.49	11.81	.....	18.69	7.95	....	
New York, N. Y.								
C-Em-Grow Poultry Feed	G.	11.00	2.00	.....	....	....	8.00	Ground oat meal, buckwheat, corn, wheat, barley, wheat bran with screenings not exceeding mill run, wheat middlings, alfalfa, meat, bone, salt, calcium carbonate.
J. J. Badenock Co.	F.	11.99	1.88	70.11	6.25	9.77	8.54	
Chicago, Ill.								

Brand and name and address of manufacturer.		Pounds in 100 lbs. of Feed Stuff.						Certified by manufacturer to contain
		Protein.	Fat.	Carbo-hydrates.	Ash.	Moist-ure.	Crude Fiber.	
Egg-A-Day Dry Mash	G.	18.00	3.00	.....	....	....	11.00	Ground oat meal, buckwheat, corn, wheat middlings, barley, wheat bran with screenings not exceeding mill run, milo maize alfalfa, meat, bone, fish, salt, calcium carbonate.
J. J. Badenock Co. Chicago, Ill.	F.	16.97	3.95	62.02	8.77	8.29	10.31	
Beach's Cracked Bone	G.	25.00	5.00	.....	....	....	9.00	
Beach Soap Co. Lawrence, Mass.	F.	24.43	4.28	.....	60.21	8.84	....	
Pure Ground Beef Scraps	G.	35.00	10.00	.....	....	....	....	
Beach Soap Co. Lawrence, Mass.	F.	37.13	14.93	.....	38.34	6.76	....	
Blatchford's Laying Mash	G.	20.00	5.00	48.00	....	....	8.00	Meat scraps, fish scraps, alfalfa meal, barley meal, cottonseed meal, corn feed meal, cocoanut meal, cocoa shells, bone meal, oat meal, powdered limestone, wheat bran and salt.
Blatchford Calf Meal Co. Waukegan, Ill.	F.	20.27	5.08	54.54	11.24	8.87	11.04	
Bufceco Laying Mash	G.	20.00	5.00	49.00	....	....	8.00	Ground corn, oats, wheat and kaffir corn, wheat bran, wheat middlings, linseed meal, alfalfa meal, oat middlings, meat and bone scraps, ½ of 1% salt.
Buffalo Cereal Co. Buffalo, N. Y.	F.	20.36	6.21	58.41	6.62	8.40	6.01	
Bufceco Poultry Mash	G.	15.00	4.00	62.00	....	....	5.00	Ground corn, wheat bran, wheat middlings, hominy feed, corn gluten feed, oat middlings and rolled oats.
Buffalo Cereal Co. Buffalo, N. Y.	F.	16.99	5.59	64.97	3.51	8.94	3.67	
Iroquois Laying Mash	G.	20.00	5.00	55.00	....	....	8.00	Corn feed meal, hominy feed, linseed meal, oat middlings, alfalfa meal, meat and bone scraps and wheat middlings, containing mill run of ground screenings, ½ of 1% salt.
Buffalo Cereal Co. Buffalo, N. Y.	F.	20.75	6.98	55.26	8.25	8.76	7.91	
Conkey's Buttermilk Starting Feed	G.	12.00	3.00	60.00	....	....	4.00	Hulled oats, wheat middlings, corn meal, corn feed meal, buttermilk, bone.
G. E. Conkey Co. Cleveland, Ohio.	F.	12.48	3.92	66.42	5.39	11.79	3.93	

Crosby's Egg Mash	G.	16.00	3.00	55.00	....	....	10.00	Alfalfa meal, bran, middlings, wheat meal, corn feed meal, ground corn, linseed oil cake, meat scraps, ½ of 1% salt.
E. Crosby & Company, Brattleboro, Vt.	F.	17.21	5.06	59.28	7.25	11.20	9.12	
Quality Laying Mash	G.	18.00	4.00	.....	....	....	8.00	Wheat bran, wheat middlings, corn meal, alfalfa meal, linseed meal, gluten feed, ground oats, meat meal.
J. Cushing Co., Fitchburg, Mass.	F.	19.66	6.19	60.52	6.29	7.34	8.31	
Daw's Ground Beef Scraps	G.	43.00	12.00	.....	....	....	....	Made from meat scraps.
John C. Daw Co., Boston, Mass.	F.	49.87	14.89	.....	28.75	6.23	....	
Diamond A Mash Feed	G.	18.00	3.50	60.00	....	....	9.00	Ground oats, ground barley, corn gluten feed, beef scraps, wheat bran, wheat middlings, corn meal, ¾ of 1% salt.
Foster Grain Co., Lowell, Mass.	F.	18.65	3.66	58.91	7.89	10.89	8.48	
Greene's First Feed for Baby Chickens	G.	17.00	3.00	.....	....	....	7.00	White corn steam cooked, yellow corn germ meal, shredded codfish steam cooked, bulled oats steam cooked, dried buttermilk steam cooked, oil meal, gluten meal, dried blood, flax screenings, shells, lime and fine ground meat and bone.
Greene Chick Feed Co., Marblehead, Mass.	F.	17.16	5.11	53.57	15.53	8.63	8.47	
Greene's Buttermilk Poultry Mash	G.	14.00	5.00	.....	....	....	7.00	Dried buttermilk, fish scraps, meat and bone scraps, shells, lime, grain screenings, hominy feed, gluten feed alfalfa meal, wheat bran and salt.
Greene Chick Feed Co., Marblehead, Mass.	F.	16.99	3.67	53.09	16.86	9.39	6.97	
Hinckley Poultry Feed	G.	30.00	8.00	.....	....	....	....	Cooked meat and bone scraps, animal products.
Hinckley Rendering Co., Somerville, Mass.	F.	35.03	9.91	.....	36.91	5.10	....	
Red Star Brand Fish Scrap	G.	45.00	2.00	.....	....	....	1.00	
International Glue Co., Boston, Mass.	F.	45.44	1.75	.....	41.46	7.73	....	
Badger Laying Mash	G.	18.00	3.50	50.00	....	....	10.00	Wheat bran, wheat middlings, maizo red dog flour, corn feed meal, alfalfa meal, meat scraps, corn germ meal, and hominy feed.
Charles A. Krause Milling Co., Milwaukee, Wis.	F.	18.17	5.35	58.01	7.35	11.12	9.75	
Peerless Poultry Feed	G.	35.00	8.00	.....	....	....	....	Cooked meat and bone scraps, animal products.
Lowell Rendering Co., Lowell, Mass.	F.	38.18	11.77	.....	41.27	5.12	....	
Manchester Poultry Feed	G.	40.00	8.00	.....	....	....	....	Cooked meat and bone scraps.
Manchester Rendering Co., Manchester, N. H.	F.	42.29	14.67	.....	31.28	6.37	....	

Brand and name and address of manufacturer.		Pounds in 100 lbs. of Feed Stuff.						Certified by manufacturer to contain
		Protein.	Fat.	Carbohydrates.	Ash.	Moisture.	Crude Fiber.	
Poultry Mash McQuesten & Lewis Manchester, N. H.	G. F.	11.00 18.56	2.50 3.63	50.00 61.24	.... 6.45	.... 10.12	7.00 6.83	Wheat and wheat by-products, corn and corn by-products, gluten feed, alfalfa meal, barley meal, oil meal and a small per cent of salt.
Pure Ground Poultry Scraps George E. Marsh Co. Lynn, Mass.	G. F.	40.00 37.96	8.00 11.53	....	.... 36.69	.... 5.78	....	Carefully selected cooked meat and bone scraps.
Lay or Bust Dry Mash Park & Pollard Co. Boston, Mass.	G. F.	18.00 20.97	1.50 3.63	40.00 55.06	.... 11.23	.... 9.11	12.00 7.32	Ground wheat bran with mill screenings, wheat middlings, corn, wheat, oats, barley, kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, calcium carbonate and salt.
Park & Pollard Growing Feed Park & Pollard Co. Boston, Mass.	G. F.	10.00 13.84	1.50 2.87	50.00 64.57	.... 7.79	.... 10.93	8.00 7.29	Ground corn, wheat, barley, oats, meat, bone, alfalfa, kaffir corn, wheat bran with mill run of screenings, wheat middlings, buckwheat, calcium carbonate and salt.
Portland Poultry Feed Portland Rendering Co. Portland, Maine.	G. F.	35.00 36.60	8.00 13.16	....	.... 39.21	.... 6.18	....	Cooked meat and bone scraps.
Tom Boy Poultry Mash Purity Oats Co. Davenport, Iowa.	G. F.	15.00 15.24	4.00 3.90	..... 60.76	.... 11.91	.... 8.19	10.00 9.63	Ground meat, wheat, oat meal, wheat middlings, milo maize, buckwheat, corn meal, barley, oat middlings, millet, gluten feed, kaffir corn, alfalfa meal, hominy feed, wheat bran, oat germ meal, rock phosphate, salt, calcium carbonate and charcoal.
Full-O-Pep Dry Mash Quaker Oats Company Chicago, Ill.	G. F.	20.00 21.50	4.00 5.92	49.00 53.40	.... 10.24	.... 8.94	10.00 8.36	Meat scraps, fish meal, oat meal, alfalfa meal, wheat bran with ground screenings not exceeding mill run, bone meal, cottonseed meal, yellow hominy feed, corn gluten feed, ground grain screenings.

Purina Chicken Chowder Feed.....	G.	19.00	4.00	.....	....	....	10.00	Wheat middlings, wheat bran, corn meal, alfalfa flour, linseed meal, granulated meat, 1% salt.
Ralston Purina Co.....	F.	19.09	4.67	61.59	7.11	7.54	9.86	
St. Louis, Mo.								
New Hampshire Poultry Ration.....	G.	22.00	5.00	41.00	....	....	6.00	Diamond gluten, red dog middlings, ground fancy oats, bran, hominy, high grade meat scraps.
Rockingham County Farmer's Asso'n..	F.	21.26	4.58	55.97	8.12	10.07	5.56	
Exeter, N. H.								
Chic Chuck	G.	50.00	2.00	.....	....	....	1.00	Bone containing calcium carbonate, calcium phosphate, iron, silica, etc., 30% salt 2%. Chic Chuck is a pure, clean, sweet fish meal prepared exclusively from wholesome food fish, as cod, haddock and pollock.
Russia Cement Co.....	F.	51.40	1.79	.....	39.44	4.54	....	
Gloucester, Mass.								
Wirthmore Buttermilk Baby Chick Feed.	G.	13.50	5.00	60.00	....	....	5.00	Dried buttermilk, dried milk albumen, fine ground hulled oats, corn, bone meal, ground wheat, hominy feed, and wheat middlings.
St. Albans Grain Co.....	F.	15.11	3.57	64.53	6.65	10.14	3.96	
St. Albans, Vt.								
Wirthmore Mash Feed.....	G.	20.00	4.00	50.00	....	....	8.50	Dried milk albumen, ground oats, ground barley, ground corn, corn gluten feed, hominy, wheat bran, wheat middlings, beet pulp, rolled oats, choice fine ground beef scraps, fish meal, buckwheat, ¾% salt.
St. Albans Grain Co.....	F.	22.29	4.67	52.99	10.10	9.95	7.89	
St. Albans, Vt.								
True Value Poultry Mash.....	G.	18.00	4.00	50.00	....	....	8.00	Wheat bran, wheat middlings with ground screenings, not exceeding mill run, corn, feed meal, alfalfa meal, corn gluten feed, ground oats, meat scraps, linseed oil meal, salt.
Stratton-Ladish Milling Co.....	F.	22.51	4.53	53.91	7.24	11.81	6.48	
Milwaukee, Wis.								
Ti-O-Ga Laying Food.....	G.	17.00	2.50	.....	....	....	6.00	Wheat middlings, old process linseed oil meal, meat and bone scraps, corn gluten meal, hominy feed, wheat bran, corn feed meal, barley, phosphate of lime, cocoanut oil meal, corn gluten feed.
Tioga Mill & Elevator Company.....	F.	22.01	3.91	55.01	11.49	7.58	5.39	
Waverly, N. Y.								
Blue Seal Dry Mash.....	G.	16.00	3.00	.....	....	....	10.00	Wheat feed, corn meal, gluten feed, rolled oats, beef scraps, beet pulp, calf meal, oil meal and hen-e-ta bone.
H. K. Webster Co.....	F.	21.26	3.98	46.93	20.26	7.57	9.61	
Lawrence, Mass.								

Brand and name and address of manufacturer.		Pounds in 100 lbs. of Feed Stuff. Protein.	Fat.	Carbohydrates.	Ash.	Moisture.	Crude Fiber.	Certified by manufacturer to contain
WHEAT FEEDS								
Acme Feed	G.	16.00	4.00	.....	....	....	9.00	Wheat bran, wheat middlings and not exceeding mill run of ground cleaned wheat screenings.
Acme-Evans Co. Indianapolis, Ind.	F.	14.76	4.42	66.38	6.17	8.27	....	
Portage Flour Middlings	G.	14.00	3.00	.....	....	....	9.00	Wheat products.
Akron Feed & Milling Co. Akron, Ohio.	F.	16.11	3.92	64.36	4.79	10.82	....	
Trojan Bran	G	14.50	4.00	52.00	....	....	8.50	Pure wheat products.
Allen & Wheeler Co. Troy, Ohio.	F.	14.76	4.90	61.94	6.76	11.64	....	
Trojan Middlings	G.	15.00	4.00	52.00	....	....	6.00	Wheat feed with ground screenings not exceeding mill run.
Allen & Wheeler Co. Troy, Ohio.	F.	16.03	5.16	64.07	3.96	10.78	....	
Amco Middlings	G.	17.00	5.00	57.20	....	....	8.00	
Amendt Milling Co. Monroe, Mich.	F.	14.54	4.52	68.31	4.46	8.17	7.08	
Amco Wheat Bran	G.	15.00	3.00	53.34	....	....	12.55	
Amendt Milling Co. Monroe, Mich.	F.	15.72	4.29	63.29	5.89	10.81	....	
Bran	G.	13.00	4.00	51.00	....	....	12.00	Wheat bran with ground screenings not exceeding mill run.
Ansted & Burk Co. Springfield, Ohio.	F.	16.42	4.22	63.26	6.71	9.39	....	
	G.	15.00	5.00	58.00	....	....	5.50	Wheat middlings with ground screenings not exceeding mill run.
Middlings	F.	16.55	5.09	63.26	4.87	10.23	....	
Ansted & Burk Co. Springfield, Ohio.								
	G.	14.00	4.50	.....	....	....	8.50	Wheat bran, wheat middlings, and ground and cleaned wheat screenings not to exceed mill run.
Mixed Feed	F.	17.34	4.57	62.08	5.58	10.43	....	
Ansted & Burk Co. Springfield, Ohio.								
	G.	14.50	3.50	.....	....	....	11.00	Wheat bran, wheat middlings, ground and cleaned wheat screenings not to exceed mill run.
Mixed Feed	F.	17.43	4.00	64.06	5.18	9.33	....	
Ansted & Burk Co. Springfield, Ohio.								

Bailey Fancy Feed	G.	15.00	3.75	49.00	....	....	10.00	Soft winter wheat.
E. W. Bailey & Co.	F.	16.11	3.90	64.11	5.89	9.99	....	
Montpelier, Vt.								
Capital Mixed Feed	G.	14.00	3.00	60.00	....	....	7.00	Wheat bran and second class flour.
E. W. Bailey & Co.	F.	16.29	4.17	64.64	5.83	9.07	....	
Swanton, Vt.								
Capital Mixed Feed	G.	16.00	4.50	.....	....	....	5.00	Wheat bran and red-dog flour.
E. W. Bailey & Co.	F.	16.82	4.68	62.43	6.03	10.04	....	
Swanton, Vt.								
Pure Winter Bran	G.	14.50	4.00	.....	....	....	10.00	
E. W. Bailey & Co.	F.	16.11	5.23	62.50	6.35	9.81	....	
Montpelier, Vt.								
Wheat Bran	G.	14.50	4.50	.....	....	....	12.50	Wheat bran with not exceeding mill run
Baldwin Flour Mills	F.	15.41	4.69	63.67	5.11	11.12	....	of ground screenings.
Minneapolis, Minn.								
Wheat Shorts	G.	15.50	5.00	.....	....	....	10.00	Wheat shorts with ground screenings
Baldwin Flour Mills	F.	15.50	5.18	63.30	5.46	10.56	....	not exceeding mill run.
Minneapolis, Minn.								
Fancy Low Grade Flour	G.	16.00	3.00	63.00	....	....	3.00	
Barber Milling Co.	F.	17.11	3.91	65.02	3.14	10.82	....	
Minneapolis, Minn.								
Bellson Winter Bran	G.	13.00	3.00	.....	....	....	13.00	Ground screenings not exceeding mill
Samuel Bell & Sons	F.	17.43	4.68	60.31	6.89	10.69	....	run.
Philadelphia, Pa.								
Big Diamond Bran	G.	12.00	4.00	.....	....	....	12.00	Ground screenings not exceeding mill
Big Diamond Mills Co.	F.	13.66	4.43	63.66	6.48	11.77	....	run.
Minneapolis, Minn.								
Big Diamond Standard Middlings	G.	15.00	4.50	.....	....	....	11.90	Ground screenings not exceeding mill
Big Diamond Mills Co.	F.	15.15	4.52	65.63	4.28	10.42	....	run.
Minneapolis, Minn.								
Wheat Bran and Scourings	G.	14.50	3.50	.....	....	....	10.00	Scourings not to exceed 3%.
Blackwell Mill and Elevator Co.	F.	15.90	3.57	61.60	6.89	12.04	....	
Blackwell, Okla.								
Blish's Bulls Eye Mixed Feed	G.	16.00	4.40	.....	....	....	9.10	Pure bran and middlings from country
Blish Milling Co.	F.	16.11	4.42	62.68	5.75	11.04	....	run wheat.
Seymour, Ind.								
Wheat Bran	G.	15.00	4.00	.....	....	....	12.40	Ground screenings not exceeding mill
Cannon Valley Milling Co.	F.	15.50	4.69	61.25	6.31	12.25	....	run.
Minneapolis, Minn.								

Brand and name and address of manufacturer.	Pounds in 100 lbs. of Feed Stuff.						Certified by manufacturer to contain
	Protein.	Fat.	Carbo-hydrates.	Ash.	Moist-ure.	Crude Fiber.	
Red Dog Flour	G. 14.00	4.00	60.00	....	....	4.00	
Cataract City Milling Co.	F. 17.28	4.50	65.59	3.03	9.60	....	
Niagara Falls, N. Y.							
Poland Standard Middlings	G. 14.00	4.00	.....	....	....	11.00	Ground screenings not exceeding mill run.
Century Milling Co.	F. 15.85	5.43	63.45	5.03	10.24	....	
Minneapolis, Minn.							
Commander Standard Middlings	G. 15.00	5.00	.....	....	....	10.00	Ground screenings not exceeding mill run.
Commander Mill Co.	F. 18.61	4.87	61.60	4.98	9.94	....	
Minneapolis, Minn.							
Crosby's Mixed Feed	G. 16.00	4.50	.....	....	....	9.00	Selected bran, standard middlings, red dog flour.
E. Crosby & Co.	F. 16.69	4.81	65.22	4.98	8.30	....	
Brattleboro, Vt.							
Clinton Mixed Feed	G. 14.00	3.00	60.00	....	....	7.00	Wheat bran, wheat middlings and rye feed with mill run of screenings and red dog flour.
Cunningham Grain Co.	F. 16.34	3.93	63.15	5.40	11.18	....	
Malden, Mass.							
Wheat Middlings Feed	G. 15.50	5.00	.....	....	....	8.00	Ground screenings not exceeding mill run.
Dominion Flour Mills	F. 17.08	5.09	61.09	4.92	11.82	....	
Montreal, Canada.							
Boston Mixed Feed	G. 16.00	4.50	.....	....	....	9.75	Wheat bran, middlings, low grade flour with ground screenings not exceeding mill run.
Duluth-Superior Milling Co.	F. 16.95	5.12	62.05	4.69	11.19	....	
Duluth, Minn.							
Duluth Imperial Bran	G. 13.75	4.00	.....	....	....	12.25	Wheat bran with ground screenings not exceeding mill run.
Duluth-Superior Milling Co.	F. 15.11	4.36	64.99	5.26	10.28	....	
Duluth, Minn.							
Red Dog	G. 18.50	4.75	.....	....	....	4.50	
Duluth Superior Milling Co.	F. 17.25	4.66	65.11	3.21	9.77	....	
Duluth, Minn.							
Wheat Bran	G. 13.80	4.10	.....	....	....	12.70	Ground screenings not exceeding mill run.
Duluth Universal Milling Co.	F. 14.89	4.57	65.08	5.18	10.28	....	
Duluth, Minn.							
Eagle Roller Mill Co.'s Middlings	G. 14.00	4.00	53.00	....	....	11.00	Ground screenings not exceeding mill run.
Eagle Roller Mill Co.	F. 15.72	4.24	63.56	6.04	10.44	....	
New Ulm, Minn.							
Superb Red Dog	G. 17.00	5.00	57.00	....	....	7.40	
Eagle Roller Mill Co.	F. 17.08	5.11	64.30	2.99	10.52	....	
New Ulm, Minn.							

Wheat Middlings	G.	14.50	4.00	60.00	....	....	7.00	Ground recleaned wheat screenings not exceeding mill run.
B. A. Eckhart Milling Co. Chicago, Ill.	F.	15.55	4.87	63.71	4.85	11.02	....	
Wheat Bran	G.	12.00	4.00	.....	....	....	12.00	Ground screenings not exceeding mill run.
Empire Milling Co. Minneapolis, Minn.	F.	14.40	4.39	62.23	6.89	12.09	....	
E. A. Co. Bran	G.	14.00	3.00	.....	....	....	12.00	Ground screenings not exceeding mill run.
Everett Aughenbaugh & Co. Waseca, Minn.	F.	15.50	4.56	64.06	6.02	9.86	....	
E. A. Co. Middlings	G.	15.00	3.00	.....	....	....	10.00	Standard and flour middlings and ground screenings not exceeding mill run.
Everett Aughenbaugh & Co. Waseca, Minn.	F.	18.08	5.15	61.76	4.93	10 08	....	
E. A. Co. Mixed Feed	G.	15.00	3.00	.....	....	....	12.00	Wheat bran middlings and ground screenings not exceeding mill run.
Everett Aughenbaugh & Co. Waseca, Minn.	F.	17.20	4.62	61.27	4.87	12.04	....	
Dairy Maid Flour Middlings	G.	13.00	3.00	49.00	....	....	10.00	Winter wheat with ground screenings not exceeding mill run.
Federal Milling Co. Lockport, N. Y.	F.	15.59	4.98	63.45	6.37	9.61	....	
Lucky Bran	G.	13.00	2.50	48.00	....	....	14.00	Hard wheat with ground screenings not exceeding mill run.
Federal Milling Co. Lockport, N. Y.	F.	15.24	3.74	64.73	6.61	9.68	....	
Middlings	G.	15.30	4.80	.....	....	....	11.50	Spring wheat, absolute purity guaranteed.
Fergus Flour Mills Co. Fergus Falls, Minn.	F.	15.64	5.06	63.85	4.93	10.52	....	
Garland Mixed Feed	G.	16.00	4.00	55.00	....	....	8.50	Bran, middlings, screenings and wheat cleanings not exceeding mill run.
Garland Milling Co. Greensburg, Ind.	F.	18.65	4.01	61.53	5.58	10.23	....	
Bran	G.	15.00	3.00	63.00	....	....	10.80	
Grafton Roller Mills Co. Grafton, N. Dak.	F.	15.33	4.36	63.22	6.09	11.00	....	
Improved Grafton Wheat Feed	G.	14.00	2.70	64.10	....	....	8.40	
Grafton Roller Mill Co. Grafton, N. Dak.	F.	16.86	4.53	63.35	4.85	10.41	....	
Choice Wheat Bran	G.	14.00	3.25	51.00	....	....	13.00	With trace of screenings.
Hecker-Jones-Jewell Milling Co. Buffalo, N. Y.	F.	14.71	4.72	63.02	6.86	10.69	....	
Mixed Feed	G.	15.00	4.50	50.00	....	....	11.50	Wheat bran, standard middlings, red dog. All made from wheat with mill run screenings.
Hecker-Jones-Jewell Milling Co. Buffalo, N. Y.	F.	15.50	4.84	63.50	5.84	10.32	....	
Red Dog	G.	16.25	5.00	54.75	....	....	6.00	
Hecker-Jones-Jewell Milling Co. Buffalo, N. Y.	F.	16.81	5.00	65.52	2.93	9.74	....	

Brand and name and address of manufacturer.		Pounds in 100 lbs. of Feed Stuff.						Certified by manufacturer to contain
		Protein.	Fat.	Carbo-hydrates.	Ash.	Moist-ure.	Crude Fiber.	
Standard Middlings	G.	16.00	5.00	50.00	....	....	10.00	With mill run screenings.
Hecker-Jones-Jewell Milling Co. Buffalo, N. Y.	F.	16.46	5.98	62.09	4.84	10.63	....	
Heywood Bran	G.	11.00	3.50	55.00	....	....	12.00	Choice selected wheat, guaranteed to contain no ground screenings or dirt from receiving separators.
Heywood Milling Co. Jackson, Mich.	F.	14.28	4.46	64.34	6.96	9.96	....	
Heywood Mill Feed	G.	14.00	3.75	55.00	....	....	10.00	Soft winter wheat guaranteed to contain no ground screenings or dirt from receiving separators.
Heywood Milling Co. Jackson, Mich.	F.	15.02	4.64	63.26	5.66	11.42	....	
Jenk's Mixed Feed	G.	14.00	3.50	.....	....	....	11.50	With ground screenings not exceeding mill run.
Huron Milling Co. Harbor Beach, Mich.	F.	14.41	3.78	66.30	5.68	9.83	....	
Ideal Fancy Mixed Feed	G.	15.00	4.00	53.00	....	....	10.00	Wheat bran, low grade flour, middlings and ground screenings not exceeding mill run.
E. T. & H. K. Ide. St. Johnsbury, Vt.	F.	15.24	4.23	63.59	5.87	11.07	....	
Holstein Feed	G.	12.00	3.00	.....	....	....	16.00	Wheat bran with ground screenings not exceeding mill run, cob meal.
Indiana Milling Co. Terre Haute. Ind.	F.	10.54	2.84	70.72	5.56	10.34	....	
Wheat Flour Middlings	G.	16.00	5.00	.....	....	....	8.00	With ground screenings not exceeding mill run.
W. J. Jennison Co. Minneapolis, Minn.	F.	16.11	5.01	62.81	5.39	10.68	....	
Blue Tag Mixed Feed	G.	15.00	3.00	.....	....	....	8.00	Wheat bran, low grade flour, middlings and ground screenings not exceeding mill run.
F. W. Kelley Co. St. Johnsbury, Vt.	F.	15.44	3.15	64.03	5.59	11.79	....	
Wheat Bran	G.	15.00	3.50	.....	....	....	10.00	Mill run of screenings not to exceed 8%.
Larabee Flour Mills Corporation. Kansas City, Mo.	F.	15.20	4.31	62.89	6.11	11.49	....	
Golden Bull Mixed Feed	G.	14.50	3.25	.....	....	....	10.00	Pure wheat products with ground screenings not exceeding mill run.
Lawrenceburg Roller Mills Co. Lawrenceburg, Ind.	F.	16.07	4.68	63.99	5.99	9.27	....	
Snow Flake Middlings	G.	16.00	4.50	.....	....	....	7.50	Pure wheat products with ground screenings not exceeding mill run.
Lawrenceburg Roller Mills Co. Lawrenceburg, Ind.	F.	18.30	5.46	61.70	4.93	9.61	....	
Snow Flake Mixed Feed	G.	14.00	3.00	.....	....	....	8.50	Soft winter wheat with ground screenings not exceeding mill run.
Lawrenceburg Roller Mills Co. Lawrenceburg, Ind.	F.	17.16	3.79	63.95	5.71	9.39	....	

Elmco Fancy Wheat Middlings	G.	15.80	4.60	.....	....	....	8.40	Screenings.
Listman Mill Co.	F.	16.81	5.19	63.54	4.76	9.70	....	
La Crosse, Wis.								
Elmco Wheat Red Dog	G.	15.20	1.30	.....	....	....	2.40	
Listman Mill Co.	F.	15.46	3.65	67.31	2.98	10.60	....	
LaCrosse, Wis.								
Waseo Bran	G.	14.50	4.00	.....	....	....	9.50	Soft winter wheat with ground screenings not exceeding mill run.
Lyon & Greenleaf	F.	14.54	4.13	64.33	6.69	10.31	....	
Wauseon, Ohio.								
Waseo Middlings	G.	16.00	4.00	.....	....	....	6.00	Ground screenings not exceeding mill run.
Lyon & Greenleaf	F.	16.64	4.71	63.75	5.01	9.89	....	
Wauseon, Ohio.								
Waseo Mixed Feed	G.	15.00	4.00	.....	....	....	8.00	Soft winter wheat with ground screenings not exceeding mill run.
Lyon & Greenleaf	F.	16.16	4.36	62.66	6.13	10.69	....	
Wauseon, Ohio.								
Bonny Flour Middlings	G.	15.50	5.50	.....	....	....	8.00	Screenings not exceeding mill run.
Maple Leaf Milling Co.	F.	17.25	5.57	60.45	5.06	11.67	....	
Toronto, Canada.								
Wheat Bran	G.	14.00	4.50	.....	....	....	10.00	
Mapleleaf Milling Co.	F.	16.16	4.98	61.51	5.69	11.66	....	
Toronto, Canada.								
Wheat Bran	G.	14.00	4.25	52.00	....	....	10.50	Wheat bran with ground screenings not exceeding mill run.
Maney Milling Co.	F.	15.80	4.25	61.64	6.82	11.49	....	
Omaha, Neb.								
Money Maker Middlings	G.	15.00	4.00	55.00	....	....	8.00	Wheat middlings and ground screenings not exceeding mill run.
Mansfield Milling Co.	F.	17.30	4.73	59.87	4.93	13.17	....	
Mansfield, Ohio.								
Overcoat Bran	G.	14.00	4.00	55.00	....	....	10.00	Pure wheat bran.
Mansfield Milling Co.	F.	16.03	4.29	60.60	6.19	12.89	....	
Mansfield, Ohio.								
Producer Mixed Feed	G.	14.00	4.00	55.00	....	....	9.00	Wheat mixed feed and ground screenings not exceeding mill run.
Mansfield Milling Co.	F.	16.77	4.00	60.56	5.84	12.83	....	
Mansfield, Ohio.								
Triangle Red Dog	G.	16.00	4.00	50.00	....	....	4.00	
Mansfield Milling Co.	F.	14.76	4.06	68.20	2.94	10.04	....	
Mansfield, Ohio.								
Fancy Middlings	G.	16.00	5.50	.....	....	....	10.00	Wheat with ground screenings not exceeding mill run.
Maple Leaf Milling Co.	F.	18.30	5.43	60.25	4.68	11.34	....	
Kenora, Ont.								
Wheat Bran	G.	14.50	4.00	.....	....	....	12.50	Ground screenings not exceeding mill run.
Marshall Milling Co.	F.	12.83	5.74	67.56	5.85	8.02	11.83	
Marshall, Minn.								
Wheat Bran	G.	14.50	3.50	49.00	....	....	11.00	Screenings not exceeding mill run.
Midland Flour Milling Co.	F.	16.64	4.85	60.73	6.93	10.85	....	
Kansas City, Kansas.								

Brand and name and address of manufacturer.		Pounds in 100 lbs. of Feed Stuff.						Certified by manufacturer to contain
		Protein.	Fat.	Carbo-hydrates.	Ash.	Moist-ure.	Crude Fiber.	
Millbourne Standard Middlings	G.	15.00	4.00	.....	....	....	8.00	Ground screenings not exceeding mill run.
Millbourne Mills Philadelphia, Pa.	F.	16.25	4.37	64.73	4.24	10.41	....	
Pure Wheat Bran	G.	13.00	4.00	.....	....	....	10.00	
Millbourne Mills Philadelphia, Pa.	F.	15.20	4.71	64.10	6.73	9.26	....	
Wheat Middlings	G.	15.00	4.50	55.00	....	....	10.00	Ground screenings not exceeding mill run.
Moseley & Motley Milling Co. Rochester, N. Y.	F.	15.29	4.77	63.99	4.63	11.32	....	
National Feed	G.	15.00	3.75	49.00	....	....	10.00	Wheat bran and middlings with ground screenings not exceeding mill run.
National Milling Co. Toledo, Ohio.	F.	15.64	3.79	62.91	6.03	11.63	....	
Osoto Feed	G.	15.00	4.50	49.00	....	....	10.00	Wheat bran and middlings with ground screenings not exceeding mill run.
National Milling Co. Toledo, Ohio.	F.	18.86	4.65	60.87	4.93	10.69	....	
Bran	G.	14.50	4.00	50.00	....	....	11.00	
Northwestern Consolidated Milling Co. Minneapolis, Minn.	F.	14.63	4.28	64.09	6.23	10.77	....	
Flour Middlings	G.	15.50	4.50	57.00	....	....	6.00	Ground screenings not exceeding mill run.
Northwestern Consolidated Milling Co. Minneapolis, Minn.	F.	16.55	4.51	63.79	4.79	10.36	....	
Mixed Feed	G.	15.00	4.50	53.00	....	....	10.00	Wheat bran, flour middlings and ground screenings not exceeding mill run.
Northwestern Consolidated Milling Co. Minneapolis, Minn.	F.	15.24	4.35	64.37	5.86	10.18	....	
Planet Feed	G.	15.00	4.00	55.00	....	....	8.00	A mixture of wheat bran and red dog
Northwestern Consolidated Milling Co. Minneapolis, Minn.	F.	16.11	4.61	63.06	5.41	10.81	....	
Planet Feed	G.	15.00	4.00	55.00	....	....	8.00	A mixture of wheat bran and red dog
Northwestern Consolidated Milling Co. Minneapolis, Minn.	F.	16.38	4.43	63.09	5.37	10.73	...	
XXX Comet	G.	16.50	4.00	60.00	....	....	3.00	Pure wheat products.
Northwestern Consolidated Milling Co. Minneapolis, Minn.	F.	17.95	4.01	62.09	5.82	10.13	....	
Wheat Standard Middlings	G.	15.00	4.50	53.00	....	....	11.00	Ground screenings not exceeding mill run.
Northwestern Consolidated Milling Co. Minneapolis, Minn.	F.	15.64	4.82	64.65	5.04	9.85	....	
Wheat Bran	G.	13.00	4.00	50.00	....	....	15.00	Ground screenings not exceeding mill run.
Ogilvie Flour Mills Co. Montreal, Canada.	F.	15.64	5.12	61.26	6.77	11.21	....	

Wheat Middlings	G.	15.00	4.00	52.00	....	....	11.00	Ground screenings not exceeding mill run.
Ogilvie Flour Mills Co. Winnipeg, Canada.	F.	16.55	5.29	61.56	5.73	10.87	....	
Omar Wheat Bran	G.	14.50	3.50	50.00	....	....	11.00	Pure wheat.
Omaha Flour Mills Co. Omaha, Nebraska.	F.	14.98	4.39	64.70	6.72	9.21	....	
Omar White Shorts or Red Dog	G.	14.00	2.50	57.00	....	....	6.00	Pure wheat.
Omaha Flour Mills Co. Omaha, Nebraska.	F.	14.94	4.46	67.42	3.54	9.64	....	
Pillsbury's A. Middlings	G.	15.00	4.00	55.00	....	....	8.00	Standard B. middlings and low grade flour with ground screening not exceeding mill run.
Pillsbury Flour Mills Co. Minneapolis, Minn.	F.	16.81	4.07	63.77	4.84	10.51	....	
Pillsbury's B. Middlings	G.	14.00	4.00	52.00	....	....	11.00	Wheat middlings with ground screenings not exceeding mill run.
Pillsbury Milling Co. Minneapolis, Minn.	F.	16.81	4.82	62.04	5.28	11.05	....	
Pillsbury's XX Daisy	G.	15.00	4.00	60.00	....	....	4.00	Pure wheat products.
Pillsbury Milling Co. Minneapolis, Minn.	F.	16.84	4.08	63.29	5.71	10.08	....	
Pillsbury's Fancy Wheat Mixed Feed	G.	14.00	4.00	53.00	....	....	10.00	Wheat bran and low grade flour with ground screenings not exceeding mill run.
Pillsbury Milling Co. Minneapolis, Minn.	F.	17.91	4.54	61.93	5.98	9.64	....	
Pillsbury's Wheat Bran	G.	13.00	4.00	50.00	....	....	13.00	Ground screenings not exceeding mill run.
Pillsbury Milling Co. Minneapolis, Minn.	F.	16.20	4.13	63.17	5.98	10.52	....	
Champion Mixed Feed	G.	13.56	3.58	.....	....	....	8.47	Ground screenings not exceeding mill run.
Portland Milling Co. Portland, Mich.	F.	15.20	4.09	65.15	6.02	9.54	....	
Buckeye Mixed Feed	G.	15.50	4.50	63.00	....	....	8.50	Wheat mixed feed with ground screenings not exceeding mill run.
Quaker Oats Co. Chicago, Ill.	F.	15.50	4.75	63.06	5.94	10.75	....	
Middlings	G.	14.00	4.00	59.00	....	....	5.50	Pure winter wheat.
Quaker City Flour Mills Co. Philadelphia, Pa.	F.	17.69	5.01	60.92	4.87	11.51	....	
Wheat Bran	G.	15.00	4.00	52.00	....	....	10.00	
Quaker City Flour Mills Co. Philadelphia, Pa.	F.	15.33	4.46	62.13	6.49	11.59	....	
Winter Wheat Bran	G.	13.00	3.00	50.00	....	....	10.50	Pure winter wheat.
Quaker City Flour Mills Co. Philadelphia, Pa.	F.	15.29	4.07	60.92	6.64	13.08	....	
Middlings	G.	13.25	3.48	.....	....	9.33	15.60	
T. W. Raphael & Co. Montreal, Canada.	F.	17.12	5.01	63.45	4.35	10.07	....	

Brand and name and address of manufacturer.	Pounds in 100 lbs. of Feed Stuff.						Certified by manufacturer to contain
	Protein.	Fat.	Carbo-hydrates.	Ash.	Moist-ure.	Crude Fiber.	
Bixota Wheat Bran	G. 13.50	4.10	62.30	....	....	15.60	Ground screenings not exceeding mill run.
Red Wing Milling Co. Red Wing, Minn.	F. 14.28	5.02	62.12	6.71	11.87	....	
Wheat Shorts	G. 15.50	5.00	.....	....	....	12.00	Ground screenings not exceeding mill run.
Robin Hood Mills Moose Jaw, Canada.	F. 19.79	5.94	58.49	5.63	10.15	....	
Royal Mixed Feed	G. 16.00	3.50	53.75	....	....	8.00	Wheat bran, flour middlings and ground screenings not exceeding mill run.
Royal Milling Co. Great Falls, Mont.	F. 16.60	3.75	62.63	4.76	12.26	....	
Alta Pure Wheat Middlings	G. 15.00	4.50	55.00	....	....	8.50	Mill run of standard middlings and flour middlings mixed.
Russell-Miller Milling Co. Minneapolis, Minn.	F. 16.85	5.03	61.88	5.05	11.19	....	
Bran	G. 13.00	4.00	.....	....	....	11.00	Made from wheat only.
Russell-Miller Milling Co. Minneapolis, Minn.	F. 17.34	4.15	61.81	5.19	11.51	....	
Tekoe Flour	G.	...	.....	....	....	....	Red dog flour.
Russell-Miller Milling Co. Minneapolis, Minn.	F. 17.43	3.94	64.10	4.38	10.15	....	
Wheat Occident Feed	G. 15.00	4.50	54.00	....	....	10.00	Mill run of bran, middlings and red dog.
Russell-Miller Milling Co. Minneapolis, Minn.	F. 16.81	5.19	62.55	4.91	10.54	....	
Fancy Broadflake Bran	G. 13.50	4.00	.....	....	....	12.75	Wheat bran and ground wheat screenings.
Sheffield-King Milling Co. Minneapolis, Minn.	F. 15.41	4.10	62.48	6.08	11.93	....	
Gold Mine Feed	G. 15.00	4.50	.....	....	....	9.90	Bran, shorts, low grade flour and pulverized screenings.
Sheffield-King Milling Co. Minneapolis, Minn.	F. 16.20	4.67	62.70	5.73	10.70	....	
Fancy Mixed Feed	G. 15.00	4.00	50.00	....	....	10.00	Wheat bran, low grade flour, middlings and ground screenings not exceeding mill run.
F. S. Sleeper & Co. North Haverhill, N. H.	F. 15.20	4.11	62.65	5.76	12.28	....	
Wheat Bran and Screenings	G. 13.50	3.20	.....	....	....	13.40	Wheat bran and wheat screenings not exceeding mill run.
Sleepy Eye Mills Sleepy Eye, Minn.	F. 16.69	4.39	59.88	7.03	12.01	....	
Red Turkey Wheat Shorts	G. 15.00	4.20	52.00	....	....	8.50	Wheat shorts containing not more than 5% of wheat scourings.
Southwestern Milling Co. Kansas City, Kansas.	F. 17.16	4.44	61.52	5.67	11.21	....	

Try-Me Mixed Feed	G.	16.00	3.50	50.00	....	....	9.00	Pure wheat bran middlings, shorts and ground wheat screenings not exceeding mill run.
Sparks Milling Co.	F.	17.86	4.23	59.83	6.03	12.05	....	
Alton, Ill.								
Red Dog Feed	G.	15.00	4.00	55.00	....	....	7.00	Second class flour and standard fine middlings not exceeding mill run of screenings.
St. Albans Grain Co.	F.	17.21	4.20	63.57	3.71	11.31	....	
St. Albans, Vt.								
Wirthmore Middlings	G.	14.50	4.00	50.00	....	....	7.00	Wheat middlings and red dog flour.
St. Albans Grain Co.	F.	16.46	4.02	63.90	4.91	10.71	....	Less than mill run of screenings.
St. Albans, Vt.								
Wirthmore Wheat Feed	G.	15.00	4.50	50.00	....	....	8.00	Wheat bran and red dog flour, with less than mill run of screenings.
St. Albans Grain Co.	F.	15.50	4.53	63.66	5.08	11.23	....	
St. Albans, Vt.								
Bran	G.	15.00	4.00	50.00	....	....	10.00	Ground screenings not exceeding mill run.
Star & Crescent Milling Co.	F.	15.06	4.13	62.80	6.81	11.20	....	
Chicago, Ill.								
Bran	G.	14.00	3.00	50.00	....	....	10.00	Pure wheat with mill run of screenings.
F. W. Stack & Sons	F.	13.75	3.44	.....	6.81	10.11	....	
Hillsdale, Mich.								
Middlings	G.	16.00	4.00	50.00	....	....	6.00	Made from pure wheat.
F. W. Stack & Sons	F.	15.41	4.44	64.39	4.87	10.89	....	
Hillsdale, Mich.								
Monarch Fancy Wheat Feed	G.	16.00	4.00	.....	....	....	10.00	With mill run of screenings.
F. W. Stack & Sons	F.	13.93	3.89	65.75	6.23	10.20	....	
Hillsdale, Mich.								
Superior Wheat Feed and Flour	G.	16.00	4.50	.....	....	....	7.00	With mill run of screenings.
F. W. Stack & Sons	F.	14.59	3.95	68.74	4.96	7.76	....	
Hillsdale, Mich.								
Climax Middlings and Screenings	G.	15.50	4.50	64.14	....	....	8.00	White and brown wheat with ground screenings not exceeding mill run.
David Stott Flour Mills	F.	15.94	4.56	62.92	4.95	11.63	....	
Detroit, Mich.								
Pennant Middlings	G.	15.50	5.00	55.50	....	....	8.00	Brown wheat middlings with ground screenings not exceeding mill run.
David Stott Flour Mills	F.	16.16	5.00	61.99	5.46	11.39	....	
Detroit, Mich.								
Spring Wheat Bran	G.	14.00	4.00	50.92	....	....	12.00	Wheat bran with ground clean wheat screenings.
David Stott Flour Mills	F.	14.14	4.32	62.50	6.26	12.78	....	
Detroit, Mich.								
Stag Flour	G.	14.00	3.00	67.00	....	....	2.00	Low grade wheat flour.
David Stott Flour Mills	F.	14.28	3.08	67.61	3.17	11.86	....	
Detroit, Mich.								
Stott's Fine White Middlings	G.	14.80	4.30	65.96	....	....	6.00	Fine wheat middlings.
David Stott Flour Mills	F.	16.90	4.33	62.82	4.27	11.68	....	
Detroit, Mich.								

Brand and name and address of manufacturer.		Pounds in 100 lbs. of Feed Stuff.						Certified by manufacturer to contain
		Protein.	Fat.	Carbo-hydrates.	Ash.	Moist-ure.	Crud. Fiber.	
Stott's Heavy Mixed Feed	G.	15.00	4.50	54.00	....	....	8.00	Wheat flour bran and middlings.
David Stott Flour Mills, Detroit, Mich.	F.	15.29	4.52	63.43	5.39	11.37	....	
Stott's Honest Mixed Feed	G.	15.00	4.00	52.99	....	....	8.00	Pure winter wheat bran and wheat middlings.
David Stott Flour Mills, Detroit, Mich.	F.	15.59	4.29	62.24	6.31	11.57	....	
Komo Standard Middlings	G.	15.00	4.50	52.00	.....	....	10.50	Ground screenings not exceeding mill run.
St. Paul Milling Co., St. Paul, Minn.	F.	16.90	4.60	61.82	4.76	11.92	....	
Stratton & Co.'s Middlings	G.	16.20	4.26	.....	....	....	6.50	Screenings not exceeding mill run.
Stratton & Co., Concord, N. H.	F.	15.79	5.71	64.23	3.89	10.38	....	
Stratton & Co.'s Mixed Feed	G.	15.29	4.30	.....	....	....	7.13	
Stratton & Co., Concord, N. H.	F.	15.54	3.80	65.63	5.39	9.64	8.78	
True Value Bran	G.	14.00	3.50	53.00	....	....	11.00	Pure wheat.
Stratton-Ladish Milling Co., Milwaukee, Wis.	F.	14.19	5.12	62.85	6.16	11.68	....	
True Value Middlings	G.	15.00	4.00	55.00	....	....	9.00	Pure wheat.
Stratton-Ladish Milling Co., Milwaukee, Wis.	F.	15.94	5.73	61.97	5.29	11.07	....	
True Value Red Dog	G.	16.00	3.50	60.00	....	....	4.00	
Stratton-Ladish Milling Co., Milwakuee, Wis.	F.	15.20	4.11	66.67	3.27	10.75	....	
Angelus Wheat Middlings	G.	11.00	3.00	.....	....	....	15.00	Ground screenings not exceeding mill run.
Thompson Milling Co., Lockport, N. Y.	F.	16.55	4.65	63.33	4.97	10.50	....	
T & C Standard Middlings	G.	15.00	4.00	.....	....	....	8.50	Ground screenings not exceeding mill run.
Thornton & Chester Milling Co., Buffalo, N. Y.	F.	16.29	4.62	62.88	5.92	10.29	....	
T & C Wheat Mixed Feed	G.	14.00	4.50	50.00	....	....	11.00	Wheat bran and middlings with ground screenings not exceeding mill run.
Thornton & Chester Milling Co., Buffalo, N. Y.	F.	16.64	4.62	62.69	5.86	10.19	....	
Wheat Bran	G.	14.00	3.50	.....	....	....	12.50	Ground screenings not exceeding mill run.
George Urban Milling Co., Buffalo, N. Y.	F.	14.40	4.00	63.12	6.82	11.66	....	

Valier's Wheat Bran	G.	14.50	3.50	50.00	....	....	10.00	Five per cent ground wheat screenings.
Valier & Spies Milling Co.	F.	16.90	4.19	61.49	6.07	11.35	....	
St. Louis, Mo.								
Rowena Wheat Bran	G.	14.00	3.50	.....	....	....	10.00	Ground screenings not exceeding mill
Valley City Milling Co.	F.	14.32	3.25	66.18	6.34	9.91	....	run.
Grand Rapids, Mich.								
Rowena Wheat Cow Feed	G.	15.00	4.00	57.00	....	....	8.50	Ground screenings not exceeding mill
Valley City Milling Co.	F.	17.86	4.11	63.46	5.32	9.25	....	run.
Grand Rapids, Mich.								
Rowena Wheat Middlings	G.	15.50	4.50	.....	....	....	9.00	Ground screenings not exceeding mill
Valley City Milling Co.	F.	16.16	4.52	64.80	4.39	10.13	....	run.
Grand Rapids, Mich.								
Victor Bran	G.	14.50	4.00	.....	....	....	15.00	Spring wheat with ground screenings
Victor Milling Co.	F.	16.70	4.01	63.20	5.84	10.25	....	not exceeding mill run.
Victor, N. Y.								
Victor Mixed Feed	G.	15.00	4.50	53.31	....	....	10.00	Spring wheat with ground screenings
Victor Milling Co.	F.	16.73	4.86	62.65	5.32	10.44	....	not exceeding mill run.
Victor, N. Y.								
Victor Spring Wheat Flour Middlings	G.	14.00	3.90	60.00	....	....	5.00	Ground screenings not exceeding mill
Victor Milling Co.	F.	15.98	3.90	64.16	4.67	11.29	....	run.
Victor, N. Y.								
Victor Spring Wheat Middlings	G.	17.50	5.00	48.00	....	....	10.00	Ground screenings not exceeding mill
Victor Milling Co.	F.	17.86	5.04	59.93	5.34	11.83	....	run.
Victor, N. Y.								
Crescent Middlings	G.	14.50	3.50	50.00	....	....	10.00	Soft winter wheat with ground screen-
Voigt Milling Co.	F.	15.68	4.96	63.20	5.38	10.78	....	ings not exceeding mill run.
Grand Rapids, Mich.								
Voigt's Cow Feed	G.	14.50	3.50	.....	....	....	10.00	Soft pure winter wheat with ground
Voigt Milling Co.	F.	15.85	4.63	63.25	5.96	10.31	....	screenings not exceeding mill run.
Grand Rapids, Mich.								
Mixed Feed, Mill Run Bran	G.	15.50	4.00	50.00	....	....	10.00	Shorts and bran from soft winter wheat.
Waggoner-Gates Milling Co.	F.	17.51	4.79	61.18	6.21	10.31	....	
Independence, Mo.								
Washburn-Crosby Co.'s Arlington Flour.	G.	14.00	4.00	60.00	....	....	4.00	Selected wheat.
Washburn-Crosby Co.	F.	14.80	3.05	64.47	6.06	11.62	....	
Minneapolis, Minn.								
Washburn-Crosby Co.'s Wheat Bran	G.	13.00	4.00	50.00	....	....	13.00	Ground screenings not exceeding mill
Washburn-Crosby Co.	F.	15.19	4.45	62.42	6.38	11.56	....	run.
Minneapolis, Minn.								
Wash'n-Cros. Co.'s Adrian R. Dog Flour	G.	16.00	4.00	60.00	....	....	4.00	Pure hard wheat.
Washburn Mills	F.	18.21	4.25	64.38	3.01	10.15	....	
Minneapolis, Minn.								
Washburn-Crosby Co.'s Stand. Middlings	G.	14.00	4.00	52.00	....	....	11.00	Ground screenings not exceeding mill
Washburn Mills	F.	17.43	4.94	62.70	5.23	9.70	....	run.
Minneapolis, Minn.								

Brand and name and address of manufacturer.		Pounds in 100 lbs. of Feed Stuff.						Certified by manufacturer to contain
		Protein.	Fat.	Carbo-hydrates.	Ash.	Moist-ure.	Crude Fiber.	
Wash. Cros. Co.'s Wheat Flour Middlings	G.	15.00	4.00	55.00	....	....	8.00	Ground screenings not exceeding mill run.
Washburn Mills	F.	16.11	4.10	63.05	5.13	11.61	....	
Minneapolis, Minn.								
Wheat Bran and Wheat Screenings.....	G.	14.50	3.50	54.00	....	....	10.00	Wheat bran and wheat screenings not to exceed 8%.
Weber Flour Mills Corp.....	F.	15.81	3.79	64.32	6.49	9.59	....	
Salina, Kansas.								
Wheat Mixed Feed.....	G.	13.70	3.80	.....	....	....	12.40	Ground screenings not exceeding mill run.
H. Wehmann Co.....	F.	15.65	4.61	63.04	5.94	10.76	....	
Minneapolis, Minn.								
Mill Run Wheat Feed.....	G.	15.50	4.00	.....	....	....	8.60	
Wells-Abbott-Nieman Co.	F.	17.25	4.38	62.19	5.77	10.41	....	
Schuyler, Neb.								
Pure Wheat Middlings.....	G.	16.80	4.00	.....	....	....	7.80	
Wells-Abbott-Nieman Co.	F.	18.70	5.01	61.30	4.06	10.93	....	
Schuyler, Neb.								
Black Hawk Bran.....	G.	13.30	3.00	.....	....	....	12.00	Ground screenings not exceeding mill run.
Western Flour Mills Co.....	F.	16.95	4.29	60.51	6.29	11.96	....	
Davenport, Iowa.								
Kent Mixed Feed.....	G.	14.00	3.00	.....	....	....	11.00	Soft winter wheat.
Williams Bros. Co.....	F.	16.38	4.88	62.65	5.21	10.88	....	
Kent, Ohio.								